



DWARFED—Kirtland AFB airman appears mighty tiny as he stands beside pod that will be dropped from Convair B-58 Hustler. Air Force Special Weapons

Center is responsible for development of Hustler's nuclear weapon capability. B-58's pod system is being tested near Kirtland.



Convairiety

Vol. 11, No. 2

Wednesday, January 22, 1958

**Fort Worth and
Daingerfield**
EDITION

Fort Worth news office:
ext. 8245; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



LOAD POD—Convair crew at Kirtland AFB attaches pod onto belly of Convair B-58 Hustler in preparation for test drop. Studies under way at Kirtland will lead to a nuclear warhead for pod.

B-58 Hustler's Pod to Carry Atom Warhead

Work now under way at Convair Fort Worth and at Kirtland's Special Weapons Center will arm the Convair B-58 Hustler with one of the Air Force's most potent weapons—a supersonically carried nuclear warhead.

The warhead will become the lethal part of a detachable bomb pod. It will transform the four-engine Hustler into a "potent manned nuclear weapon system."

Development at Convair Fort Worth is the prime responsibility of the special weapons group of engineering, whose job is design of the warhead installation in the pod, arming and fusing of the weapon.

"We have been studying this system for several years," said W. T. Timmons, senior design engineer. "We are fighting to utilize every available inch of space in the pod."

Working with Timmons are Douglas Wilkerson and Walter Wilson. Other help comes from electrical, fuselage and hydraulics groups.

Kirtland-staged pod drop tests over the Holloman AFB test range serve to check out the warhead system. The Convair-conducted drop tests are observed closely by Air Force crews from the Special Weapons Center.

Major Charles S. Oldfield, chief of the development directorate's bomber branch, points out that the joint tests eliminate the old system of re-testing weapons systems after delivery to the Air Force.

He said the joint tests save considerable money. The Air Force, of course, picks up the tab for both factory and Air Force testing. Combining the two reduces the cost.

"The potency of the B-58 lies in the Hustler's ability to get the

FW Ready if B-58 Stepped up

Convair Fort Worth people are ready to produce as many B-58 Hustlers as required—and to turn them out at whatever production rate is set by the Air Force.

This was August C. Esenwein's answer this week to questions posed as result of wire service news stories out of Washington reporting that the Air Force is requesting \$700 million for Strategic Air Force needs in the fiscal year starting July 1.

The Fort Worth Division manager emphasized, however, that while Convair Fort Worth's work on B-58's is proceeding without

(Continued on Page 6)

It's Time Again To Apply For FW Scholarships

Convair Fort Worth is now taking applications for two scholarships to be awarded to sons of Convair employees this year. The awards will bring the number of such scholarship holders to 11.

The scholarships are intended to help sons of Convair employees obtain undergraduate training in engineering and allied sciences. They provide up to a maximum five-year course, including tuition, fees, and \$250 cash per year.

Deadline for this year's applications is March 31, according to J. B. Ellis, industrial relations engineering administrator.

Applicants must be seniors in high school now or have graduated no more than two years before. Scholastic standing of the applicant must be in the upper half of his class.

Also, the applicant must be a son or stepson of a regular employee of Convair who has completed at least five years service with the company.

Scholarship winners are free to select any accredited college, and to pursue any standard course leading to a degree in engineering or an allied science.

Nine Convair Fort Worth sons presently holding scholarships (Continued on Page 6)

Suggestion Awards Top \$35,000 For New Record

Convair Fort Worth in 1957 paid employees an all-time high of more than \$35,000 for Employee Suggestions on ways to reduce costs, according to J. M. Langendoen, supervisor of the suggestion section.

The installed suggestions saved the division \$389,245. More than 3,700 employees submitted 4,665 suggestions during the year, with 610 approved.

"We paid \$16,000 more for suggestions in 1957 than in 1956," Langendoen said. "1957 was our biggest year."

"But 14,000 eligible employees did not submit suggestions. If they had, the company probably would have paid \$150,000—and would have been happy to do it."

Of the suggestions accepted, 14 employees got from \$500 to \$2,768; 107 received from \$100 to \$500; 86 got from \$50 to \$100; and 375 were awarded from \$10 to \$50. Action on the remaining 28 approved suggestions is still pending.

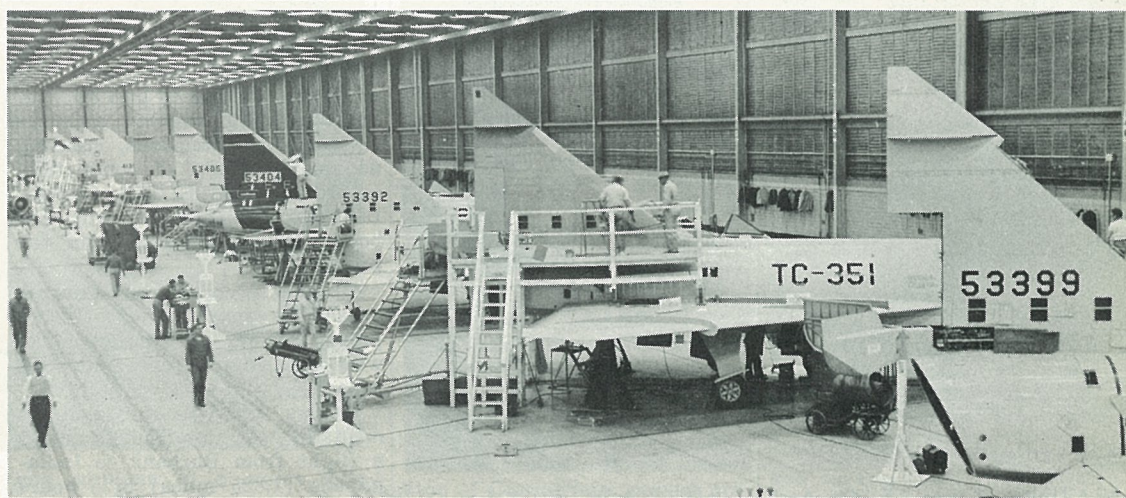
Two of the 1957 awards were the largest ever given by Convair Fort Worth. Joe Rozina, Dept. 30, got \$2,768, and D. L. Campbell, Dept. 75, received \$2,756.

A typical award went to Janelle R. Lewis, Dept. 15, who got \$116 for suggesting a more simplified form for plant visit security clearances.

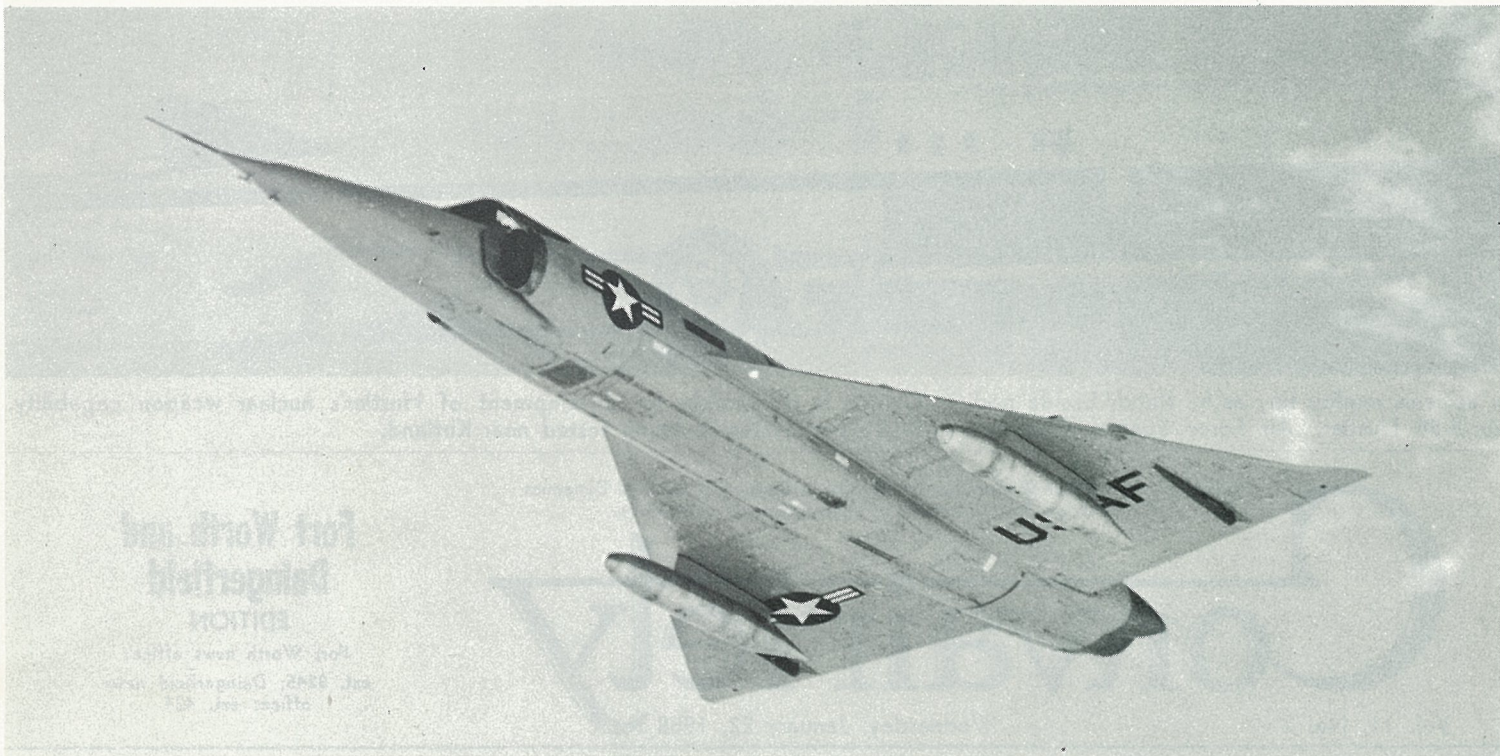
All hourly-paid employees are eligible for awards.

Suggestion boxes located throughout the plant are serviced regularly by the suggestion section. Each suggestion is evaluated and, if the idea saves as much as \$50, the employee gets a \$10 award. If the idea saves more than \$100, the employee gets 10 per cent of the total net savings.

Other employees participate in the continuing cost-control effort through the Cost Improvement Program. This, however, does not involve cash awards.



F-102S AT FORT WORTH—Eleven Convair F-102s are shown on newly expanded modernization line at Convair Fort Worth. Ships are completely inspected, repaired and brought up to latest operational configuration.



NOTICE ANYTHING DIFFERENT?—This is seldom, if ever, seen around San Diego or Fort Worth and rarely at Palmdale, though sometimes at Edwards. What is it? An F-102A with extra

fuel tanks. Tanks fit neatly below each wing and are jettisonable as required. F-102As so equipped are mostly seen at operating Air Force bases when mission requires extra distance provisions.

Giant Graphite Blocks Arrive For B-58 Work

Convair Fort Worth is now working on six of the biggest blocks of high-grade graphite ever made. The material—something like lead in a pencil—is used to form and temper stainless steel parts for the Convair B-58 Hustler.

National Carbon Co., a division of Union Carbide Corp., manufactured the huge slabs of graphite. They measure 20 by 46 by 84 inches and weigh two and a half tons each.

At Convair Fort Worth, the graphite will be machined into exacting shapes to hold stainless steel components to be furnace-brazed at extremely high temperatures.

Graphite is the only acceptable material for the brazing operation because of its stability and resistance to shock at high temperatures.

The forms are used by the brazing area in Dept. 34, where parts are fitted glove-tight into the graphite blocks. The form is then placed in a huge oven and "cooked."

Convair has used graphite forms for some time, but even bigger forms are required as more and larger parts go into the Hustler.

Graphite is the only material that will withstand the temperatures required.



SOME FIRSTS—Pictured left above in cockpit of F-102A is 2nd Lt. James Yeager of 438th FIS, at Kinross AFB, Michigan, who Dec. 5 was first 438th pilot to fire a missile from an F-102A. He is reported to be first of his rank in ADC to fire a Falcon and probably first in AF. In photo at right above, Pilot R. A. Lawrence of Palmdale and J. M. Tuggle (SD Dept. 271) gag up starter shortage during which SD had to borrow from Palmdale. They invented "windup" key to use in interim!

Former YC-131C, With New Turbo Engines, Flying 1,000-Hour Test

Operation Hourglass, an around-the-clock flight marathon for a veteran Convair transport, is nearing its end this month.

Allison Division of General Motors is conducting the program with its latest (Model 501) turbo-prop power plants installed in a military version of the famed Convair-Liner 340.

The aircraft being used is no stranger to turboprop. It is one of two built at Convair SD and modified for turboprop power at Convair FW. It has racked up many thousands of hours of flying time as one of the first turboprop transports in use by the Air Force. Both airplanes were known as YC-131Cs. The second YC-131C is now flying high altitude electronic research flights for the Radio Corporation of America.

Operation Hourglass is being conducted to simulate medium and short-range airline flights. Flights are made for varying lengths of time and to date have been conducted in more than a score of states.

Starting on Nov. 1, 1957 with a goal of 1,000 hours of flight time, the program passed the 525-hour mark by mid-December. Utilization of the Convair had averaged almost 11 hours daily at that time.

Cruising speeds of better than 215 knots (340 mph) have enabled the Convair to pull up with and pass four-engine airliners on numerous occasions, creating no small amount of commotion, according to A. E. Hill, Convair field service engineer, who has been aboard during some of the program.

On one occasion the Convair passed a four-engine (turboprop) airliner of foreign make with one engine feathered, Hill reports.

Among the recent achievements in Operation Hourglass was a flight from Burbank to Indianapolis (1,825 miles) in 5 hours 40 minutes. Average ground speed while cruising was 350 miles an hour, 100 miles faster than the standard 340.

P. T. Gardner Manager Of Sycamore Base

Philip T. Gardner this month was named manager of Convair Astronautics' Sycamore Canyon test base.

Gardner has been acting test base manager since that unit was activated.

A native of Los Angeles and a 1940 graduate of the University of California, Gardner worked for Lockheed, Douglas and National Supply before entering the Merchant Marine in 1944.

Joining the Vultee Field Division of Convair in 1947, Gardner transferred to San Diego five months later and held several engineering posts before moving to Astronautics in 1956. He has been classified as a research group engineer since 1956.

Reynolds Heads New Astro Dept.

Creation of the Astronautics Division office of product support was announced this month by J. R. Dempsey, Astronautics manager.

The new function is designated Dept. 300.

E. A. Reynolds, Astro manager of long range planning, has been named manager of product support, on an executive training assignment, reporting directly to Dempsey.

Included in the new organization will be the present service engineering group headed by R. F. Nelson, and the contract administration logistics group headed by F. R. Gaughen. Both will report to Reynolds. In addition, a logistics depot function will be activated to function within the new unit.

W. L. VanHorn will act as manager of long range planning during Reynold's assignment period.

'Gun Butts,' 'Boneyard' Get Official Names

Nicknames such as "gun butts" and "boneyard" got an official heave-ho recently.

That area devoted to F-102A and F-106A field operations is now known as the "Model 8 San Diego Field Operations" area. Adjacent to it is the "Harbor Drive Storage Yard" containing tool and equipment storage.

The new names will help eliminate confusion arising from the use of various nicknames attached to the areas in the past. They will be used on all material routing and delivery documents.

61st FIS Welcomes First of New 102As

The 61st Fighter-Interceptor Squadron at Truax Field AFB, Wis. has received its first Convair F-102A interceptors, according to the "Jet Gazette," base paper.

Recently returned from Ernest Harmon AFB, Newfoundland, the 61st FIS has been going through a transition period before assuming air defense tasks with the Air Defense Command. The F-102A-equipped 323rd FIS replaced the 61st in Newfoundland.

Convair Cove Homes Offered to Public

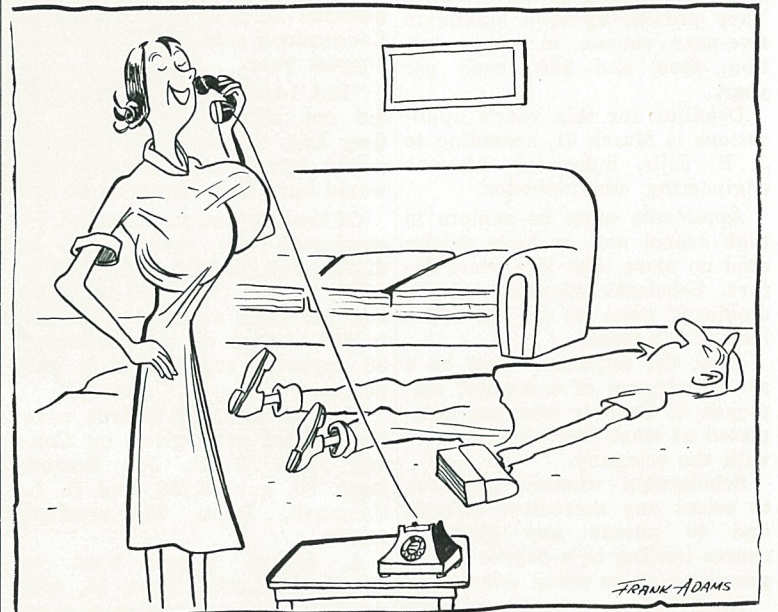
For the first time since its completion, homes in the \$2-million "Convair Cove" housing development at Cocoa Beach, Fla., are being offered for sale to the general public.

B. G. MacNabb, manager of the Convair Astronautics operation at the nearby Air Force Missile Test Center, announced that all unsold homes in the development now are available for sale.

Prices range from \$14,925 to \$18,650. Conventional and FHA financing is available.



BRAZING FORM—E. O. Andrus, left, and W. O. Yale check large graphite form in brazing area at Convair Fort Worth. Graphite is only material that can stand up to high temperatures needed in operation.



"Hello, Betty? Joe just got home . . . and remember those old safety helmets he had hanging in the garage?"

Development Study Of Titanium Alloys Will Start at SD

Work is slated to begin soon at Convair San Diego on a \$1,-388,044 Air Force contract for development study on the use of titanium alloys in supersonic aircraft and missiles.

Prime purpose of the study is determining the adaptability of the new alloys to the design, fabrication and construction of future weapon systems.

Manufacturing methods and processes, fabricating techniques and tooling consistent with engineering design will be worked out on components to be produced in quantity from alloys in support of normal production.

The program will be under the direction of Fred A. Monahan, SD manager of manufacturing development and process specifications. Technical responsibility will be handled by Stanley R. Carpenter, senior design group engineer, and Stanley L. Leith, acting chief of manufacturing development.



SECRET NO LONGER—For months, interior design of Convair jet 880 has been kept secret. But now it's out. Pictures were taken inside full-size mockup at San Diego, with models as passengers.



Varying ceiling levels give cabin compartmentalized atmosphere, without use of partitions. Seats are roomier and aisles wider. Special glass makes window curtains unnecessary.

Passenger Forecasts Indicate Big Volume Business For Jetliners

The "golden age of jet travel"—in which Convair's jet 880 will be a prominent citizen—is rapidly approaching, accompanied by some interesting problems that the faster flying planes will create.

So said J. D. Donaldson, Convair assistant manager of commercial sales, speaking on "Economics of Jet Transports" Jan. 7 before a joint gathering of San Diego sections of the Institute of Aeronautical Sciences and the Society of Automotive Engineers.

In generalizing on some of the aspects of jet transport, Donaldson pointed out that the mere fact that the planes will carry so many passengers (the 880 will carry 88, other jet entries more than 100) gave airline operators the "shudders."

"They could visualize the problems in getting 88 persons ticketed, baggage checked and all loaded into an airplane, not for just one special operation, but for every flight . . . But when they realized this is absolutely necessary if there is to be a jet age, they took a closer look at passenger forecasts for 1960 and on, shrugged and bought the airplanes."

The passenger forecasts, incidentally, mean even more to the operators in view of the far higher "dollars per hour" operating costs of the jets and therefore the even greater necessity to avoid empty seats.

"Jet aircraft are expensive and commercial operators can ask if they are worth the price. The airline is buying a machine to generate seat miles and if this productivity is compared to present day prices and capacity for productivity, the jet airplane is a bargain."

"Are we ready for jet travel? Today, no. Ground handling equipment, terminal facilities, provision for handling larger numbers of passengers and baggage are not available today . . ."

Donaldson said the jet transport of tomorrow probably will be safer than the air transport today, omitting consideration of the factor of speed and pilot re-

action, not yet known.

"At least half of the jet accidents in the Air Force in the early days of jet flying were caused by running out of fuel," he continued. "Sufficient reserve capacity is being built into jet transports to make them safe."

"Fire is not a major problem for commercial jets. The underslung pod, the effect of the blow-out by a high speed air stream and well learned design lessons make air fires a minor consideration."

"Is air traffic control ready for jet operations? Today, no—with first jet operations, no—but in a few years after introduction, yes!"

Donald said that, happily, air traffic control is an economic rather than a safety problem.

"A simple examination of the operating costs of jet transports per hour, as compared to those of present aircraft, is enough to convince anyone that after an airline is forced to hold a jet airliner over Chicago for three hours the walls of the operator will be heard in Washington."

Assuming normal times, jet travel will be extremely popular, Donaldson predicted.

"People will travel more for pleasure and business simply because they can get to their destination more quickly and can stay there longer. Travel in a relatively quiet and vibrationless vehicle may not make travel a pleasure—for those over 40—but it will make it more endurable."

Donaldson even had a glint of hope for world peace through jet travel, suggesting that perhaps the iron curtain may be lowered for fast flying commercial jets and passengers with tourist dollars, bring a lowering of tensions through friendly tourist contacts with "Ivan."

This Town Can't Use Color-Blind Mailman

Elmer Vorce, Convair field service engineer assigned to F-102A squadrons at Ernest Harmon AFB, Newfoundland, lives in Stephenville.

Evidently Stephenville is a real casual place where they don't use street numbers because here is how he gets his mail: "Elmer Vorce, Albert White's house—the one with the green door."

Movie Writer Inspects B-58

Col. Beirne Lay—a movie writer twice nominated for an "Oscar"—described Convair's B-58 Hustler as a "very exciting airplane" after he saw one of the ships roar into the air this month.

"Last time I saw her, she was just a wooden mock-up," he said.

Lay, author of "I Wanted Wings," "12 O'Clock High," "Above and Beyond," "Toward the Unknown," and "Strategic Air Command," arrived at Convair Fort Worth Jan. 6 for a week-long orientation on the B-58.

He was last in Fort Worth during filming of "Strategic Air Command" at Carswell Air Force Base. The story was a tribute to Convair-built B-36s and the men who fly them.

Waiting for a B-58 takeoff, Lay watched a huge B-36 set down on the Carswell runway.

"You know," he said, "I still get a kick out of seeing a B-36 landing."

Lay, who lives in Brentwood, Calif., came to Fort Worth from Strategic Air Command headquarters in Omaha. He received Academy Award nominations for his scripts on "Above and Beyond" and "Strategic Air Command."

Hailstones Hammer 880; Prove Plane Can Take it

Convair San Diego engineers have devised some unusual test equipment for checking out parts and components for the new Convair 880 jet transport.

Typical is a unit for creating man-made hailstorms.

The hailstones, directed against a section of the 880 wing's leading edge, help design engineers prove out parts before actual mass production begins.

Center piece of the entire rig is a compressed air "blowgun" built mostly from salvaged parts by Obed Bobbitt, SD test engineer. It contains two steel tubes, one mounted inside another. Artificial hailstones are loaded into the inner tube and "fired," while the outer tube gives off air simulating the aerodynamics of actual

flight. Hailstones are made from regular ice cubes, pulverized by a kitchen blender, then packed tightly into halved rubber ball molds and re-frozen.

Compressed air in the blowgun can propel the hailstones at speeds up to 575 miles per hour, creating situations much like those the 880 may some day face in thunderstorms at high altitudes.

The test program, believed to be the first of its type ever conducted for a commercial transport, has proven highly successful to date. Only minor dents have been noted in the heavy gauge aluminum alloy skin of the wing section.

\$50 Million Spent on 880

Convair has expended or committed \$50 million on the 880 jet transport program, B. F. Coggan, SD Division manager, revealed last week.

This figure includes more than \$10 million in engineering work to date.

Coggan noted that more than a million square feet of factory area at Plant 1 is being readied for 880 production, in addition to vast areas devoted to the program by vendors and subcontractors. New capital facilities include the world's largest radial draw former and associated equipment; a 105-foot bed milling machine; a giant Scotchweld facility to be used in bonding 880 wings and fuel tanks.

Balloonist Speaks To Rocket Society

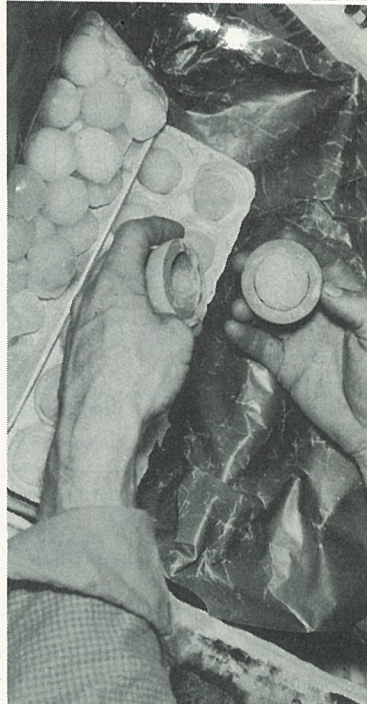
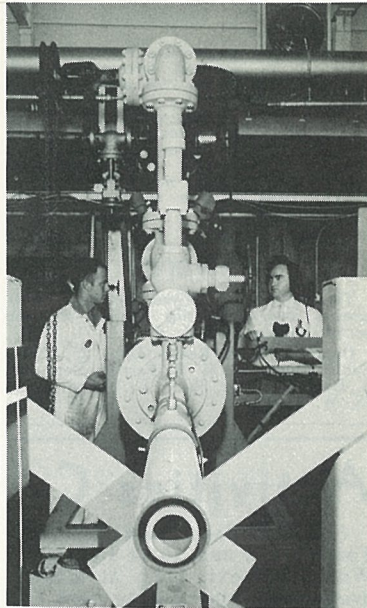
Capt. Joe Kittinger, USAF pilot, was the chief speaker Jan. 9 at a meeting of the North Texas Section, American Rocket Society, at which Charles Crabtree of Convair FW was installed as the new president.

Kittinger last summer soared to 96,000 feet in a balloon which a few days later carried Maj. David Simons to 102,000 feet. The ascents were part of physiological and psychological studies of man in a "sealed environment."

Vollmer President Of Editors Assoc.

Bob Vollmer was installed Jan. 20 as 1958 president of the Industrial Editors Association of Fort Worth in a dinner meeting at Western Hills Hotel.

Vollmer, Fort Worth news editor of Convairiety, served previously as vice president of the group, which is a member association of the International Council of Industrial Editors.



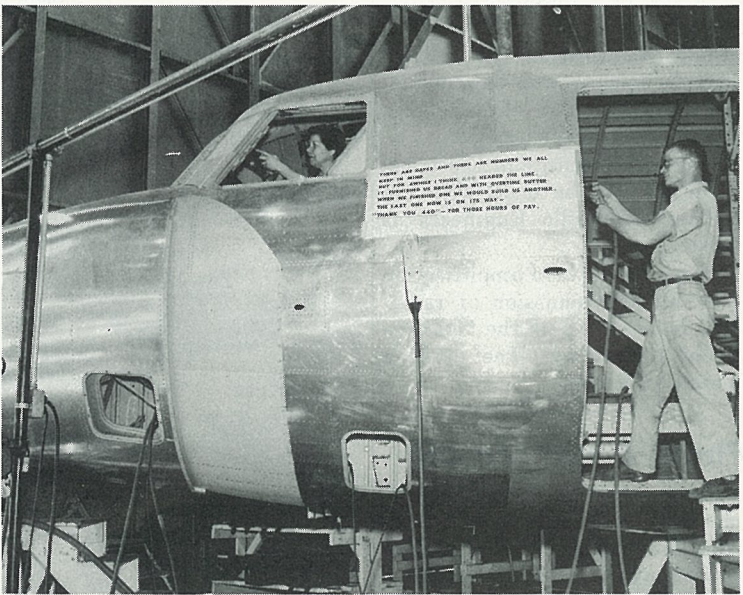
HAIL SHOOTER—Big "blowgun" in top photo fires hailstones (see lower picture) against jet 880 wing sections to test durability. Top right is Obed Bobbitt, test engineer.

Convair Expediter Fred Wilkins Dies

Fred W. Wilkins, 67, outstanding member of Convair's nationwide team of field expeditors, died early this month in Los Angeles. He was an automobile and aircraft manufacturing executive for many years before becoming active in expediting for Convair, covering Southern California.

BOND ADDRESSES IAS

Dr. J. W. Bond Jr., chief of physics group of engineering at Convair SD, was the main speaker last night (Jan. 21) at the Institute of Aeronautical Sciences. Dr. Bond discussed "Plasma Physics and Hypersonic Flight."



OLD CUSTOM—Traditionally, end airplane in a series gets special farewell. Last Model 440 nose at SD carries verse which winds up: "The last one now is on its way, Thank you 440 for those hours of pay." In photo are Alice Espinosa and Gilbert Peal, both Dept. 130.

For Best Chance to Build Many More:

B-58 Costs Score Heavily Under Terms of Newest Contract for Convair Fort Worth

The Air Force in its newest contract for B-58s emphasizes the vital need for lower costs as never before, Division Manager August C. Esenwein said this week.

"And this is what we must live by—despite all the talk in Washington these days of millions and billions more for national security.

"Our job on the B-58 was cut out for us before all this talk got under way. And our job now remains the same: to produce

the best B-58 we know how, and to do it at the lowest possible cost."

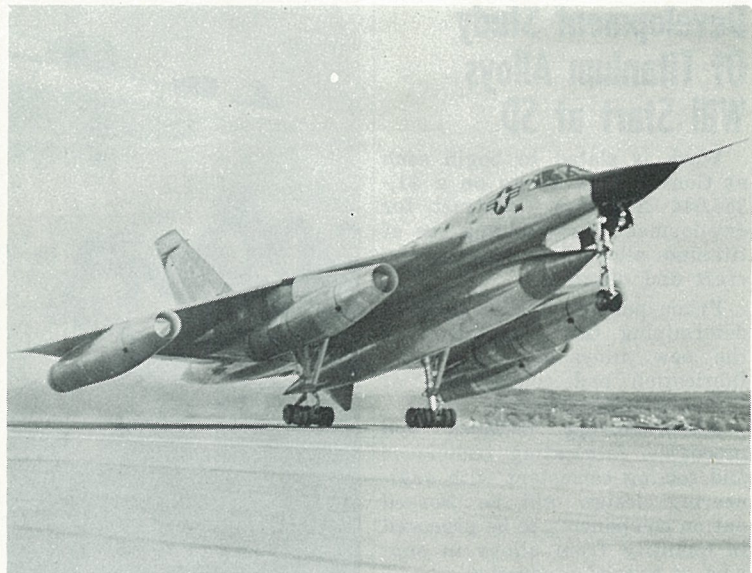
To make certain that Convair people all along the line are well aware of both the rewards and penalties they face on items of B-58 costs, Convair Fort Worth this month was getting the word on all fronts.

As a follow-up to earlier briefings for his own staff members, Esenwein personally will explain terms of the new contract to

members of middle management in a series of press conference-type meetings next week.

Esenwein urged all members of management to carry the word, in turn, to people in their own areas.

Members of supervision were clued-in through the Supervisory Newsletter, and through the monthly Convair management development meetings conducted by training section of the personnel department.



ACCEPTANCE FLIGHT—Maj. Fitzhugh Fulton powers Convair B-58 Hustler into air on first Air Force acceptance flight. Fulton later landed at Amon Carter Field, then flew ship back to Convair five hours later. (See story Page 6.)

The Passing Years...

Fort Worth

The following service emblems are due during the period January 16 through January 31:

Fifteen-year: Dept. 3, R. B. Smith; Dept. 4, R. L. Hammons, T. S. Oxford, G. H. Whitlock.

Dept. 6, A. P. Arnold, J. Bettis, J. T. Brown, J. V. Crotty, E. B. Gargis, C. Hayes, F. A. Lindstrom, W. M. Piatt, L. A. Sandquist, R. T. Sullins Jr., S. Temshiv.

Dept. 7, C. E. Aldredge; Dept. 9, L. C. Rappy, D. E. Ransom; Dept. 14, H. R. Michero; Dept. 15, W. E. Azlin, S. L. Boles.

Dept. 19, F. F. Bentley, M. E. Hughes, E. B. Jenkins, C. Poindexter; Dept. 22, P. F. Anderson, C. Colvin, J. I. Keating, S. A. Mills.

Dept. 23, A. R. McPherson Jr., W. L. J. Williams; Dept. 24, O. J. Adams, E. B. Gruenewald, M. D. Guest, C. D. Horton, S. N. McBride, E. A. Schroeder Jr., R. E. Warren.

Dept. 25, F. Crosby, E. Holimon, L. L. Lynch; Dept. 27, R. N. Culberth, N. B. Horn, C. E. McCole, D. G. Owens; Dept. 28, R. M. Coston.

Dept. 29, M. Hemby, R. A. Wolfe; Dept. 30, V. E. Cruz; Dept. 31, E. C.

Jordan, M. F. Key, C. Taylor; Dept. 44, O. L. Deaton, G. L. Nored.

Dept. 45, W. A. Murrell; Dept. 46, H. L. Garrett; Dept. 54, T. M. Roller; Dept. 55, A. E. Evans, F. H. Walraven; Dept. 56, E. L. Athey.

Dept. 57, T. R. Autrey; Dept. 62, J. A. Bibb; Dept. 64, A. L. Anderson, J. B. Howie, W. D. Jeter, J. A. Neill, E. A. Torrie, A. E. Williamson.

Dept. 65, A. A. Bryant, J. S. Livingstone, M. L. Milburn, J. L. Sheffield, R. T. Smith; Dept. 73, E. H. Fisher, S. A. Turner; Dept. 74, L. T. Patterson.

Dept. 81, H. M. Dameron, F. P. Eilenberger, M. Kimbrough, W. G. Melton, R. L. Smith, M. W. Waldrop, G. W. Weatherford; Dept. 82, H. W. Boozer; Dept. 95, J. R. Long; Dept. 96, S. T. Rankin.

Ten-year: Dept. 5, J. W. Turner; Dept. 7, B. S. Debusk, C. R. Frazer; Dept. 22, W. E. Keenan; Dept. 27, B. W. Carter; Dept. 30, C. C. Lyles, R. L. Curry.

Dept. 31, W. W. Stanley; Dept. 32, J. E. Greener, J. B. Williams; Dept. 41, J. C. Berkley, C. Peden Jr.; Dept. 44, G. Pantoja; Dept. 46, M. A. Scruggs; Dept. 59, R. L. Crooks; Dept. 75, W. T. Rhodes.

Daingerfield

Ten-year: Dept. 3, F. C. Moses; Dept. 5, H. J. Wiker Jr.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective January 6 are:

Dept. 4: to supervisor, W. F. Herron; Dept. 7: to assistant factory manager, Cleatus C. Allen; to cost analysis supervisor, B. J. Merrill Jr.

Dept. 19: to systems accountant, M. A. Hines; Dept. 24: to tool engineer, R. E. McMahan; to senior tool engineer, H. C. Johnson.

Dept. 28: to senior metallurgist, W. A. Token; Dept. 82: to assistant foreman, N. R. Daniel.

Awards

The following received Employee Suggestion awards totaling \$377.75 for the period ending January 6:

Dept. 14, W. B. Reavis; Dept. 25, T. W. Eakin; Dept. 27, M. E. Parten; Dept. 34, B. D. Ford; Dept. 35, P. L. Bishop; Dept. 45, W. L. Yaws.

Dept. 54, T. W. Moore; Dept. 55, J. T. Curl; Dept. 74, A. F. Uptmore; Dept. 82, J. A. George, N. D. Shultz.

Awards also went to C. G. Adams, formerly of Dept. 6 and H. R. McDowell, formerly of Dept. 24.

Births

HANDS—John Harry, son, 8 lbs. 11 ozs., born December 31 to Mr. and Mrs. R. H. Hands, Dept. 6-5.

Deaths

GORDON—Claude B., 53, Dept. 31, died January 7. Survivors are his wife and three children and his parents.

Lost and Found

FOUND—Pair of men's street shoes in R. D. Evans Gym. Call L. J. Conn, PE 2-3169.

Activities Calendar...

(Convair Recreation Association sponsors some 40 activities at Fort Worth and 15 at Daingerfield. For CRA information at Fort Worth call ext. 5141, at Daingerfield, ext. 424. Listed below are events occurring during next two weeks.)

Fort Worth

ART—E. D. Weimer, commissioner, ext. 5205. Class each Thursday, 7:30 p.m., Art Center.

ASTRONOMY—A. E. Gilligan, commissioner, ext. 8290. February 5, 8:30 p.m., astro-photography; each Wednesday, 7 p.m., descriptive astronomy class, CRA Building.

BADMINTON—H. R. Harrison, commissioner, Annex 1, ext. 32. Play Thursdays, 7:30-10 p.m., Stripling Jr. High.

BRIDGE—G. P. Anderson, commissioner, ext. 3226. Duplicate sessions: Fridays, 7:45 p.m.; Wednesdays, 9:30 a.m.; CRA Building.

CAMERA—Miles Rogers, commissioner, ext. 2294. Contest January 22, 7:30 p.m., CRA Building.

MOVIES—January 27-31, "Okinawa" with Cameron Mitchell; February 3-7, "My Six Convicts" with Gilbert Roland. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner,

ext. 2186. Program chairman, Bill Hites, ext. 2103. Business meeting, January 28; operating night January 23 and 30, 7:30 p.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each Thursday: beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

STAMP AND COIN—J. M. Frost, acting commissioner, ext. 7190, 7198. Mixture picking, February 4, 8 p.m., CRA Building.

TABLE TENNIS—C. G. Barton, commissioner, ext. 7171. Play Tuesdays, 7:30 p.m., CRA Building.

VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 4127. Play Mondays, 7-10 p.m., Southside Rec. Building.

WOMEN'S CLUB—Winnie Leonard, commissioner, ext. 5201, first shift: meeting February 5, 8 p.m. Mary Smith, commissioner, ext. 4221, second shift: meeting January 29, 10 a.m. CRA Building,

"The new contract gives us different incentives," Esenwein said. "It requires that the same standards of performance be met, and that schedule be met.

"But the biggest and most substantial rewards and penalties involved are scored against what it costs us to do the job. This is concrete dollars-and-cents evidence of the effort we must put into making good on costs."

This, in Esenwein's view, is all to the good. Good for both the Convair people doing the work, and the people who are paying the bill: the taxpayers.

"It gives us added incentive to keep our costs down, and every dollar we save can be used to provide funds for additional national defense work. In all, this means that the taxpayer gets more results from the tax dollar he pays."

Added government funds going into work on missiles and other new advanced weapons systems makes it all the more imperative that costs on current programs be kept under strict control, he said.

"The government—even one as concerned with national security as ours appears to be at this moment—will not long support a production program which is giving it anything less than a dollar's worth of results for every dollar it puts out.

"That's the way Convair Fort Worth people think it ought to be. And I know I can count on those people to see that we make it work that way at Convair Fort Worth.

"Cutting costs will be one of our biggest jobs in 1958."

AIEE and IRE Hold 'Transistor' Session

Dr. J. C. Castle Jr., assistant manager, physics department, Westinghouse Research Laboratories, will speak on "MASER—Atomic Application" at an aircraft technical group meeting tomorrow (Jan. 23) at Arlington State College's science hall.

American Institute of Electrical Engineers will be host, with the Institute of Radio Engineers as guests.

Maser, microwave amplification by stimulated emission of radiation, is described as the "transistor of tomorrow." The meeting begins at 8 p.m.

Photo Event Slated

Aaron Murray, Bob Cunningham and Jack Forney will comprise the judges panel at a dual contest night of the CRA camera club today at 7:30 p.m.

Club members may submit black and white prints or color slides for the competition. The meeting will be at the CRA clubhouse. A door prize will be given.

Movies for Kiddies Shown on Thursdays

Special movies will be shown at the CRA area each Thursday night from 7:30 to 9:30 p.m. to accommodate children of parents visiting the area.

The movies will include serials and short subjects.

Parents are invited to attend any Thursday activity in the area, which includes a session of square dancing.

Hair Styling, Handwriting Set For CRA Women

A hair stylist and a handwriting analyst are on tap at next meetings of the CRA women's club.

Barney Rains of Vernon's Beauty Salon will give a program on hair styling at the club's next morning session at 10 a.m. Jan. 29. There will be a fee of 25 cents. A nursery will be available.

Mrs. Catherine Poe, handwriting analyst, will conduct the next evening meeting of the club. Mrs. Poe will analyze handwriting samples and will conduct an open forum discussion with questions from the audience.

Admission will be 50 cents, which will cover cost of the program and refreshments. The meeting will be at 8 p.m. Feb. 5 at the CRA clubhouse.

Commissioners Mary Smith and Winnie Leonard remind women that all women employees and wives of employees are automatically members of the club and are invited to attend any session.

Miss Virginia Ely, Fort Worth authoress, is scheduled for a March 5 meeting of the evening group.

Ejection Seats Call for Safety

When a crewman fastens himself to the seat of Convair's supersonic B-58 Hustler, he straps himself onto enough explosive to blast him out of the cabin—and high enough to clear the plane's tail.

This point was emphasized to hundreds of Convair employees last week who inspected a traveling display which included parts of the B-58's escape system. The display was exhibited by the Frankfort Arsenal, Philadelphia, a U. S. Army ordnance plant.

W. F. Funk, design safety engineer, explained that powered escape systems are necessary in any modern high-speed aircraft. "All components are entirely safe to handle," Funk said, "as they are handled only by people trained and assigned to do such work."

Convair employees who work on the systems in the B-58 were given special training in their operation and handling, and the precautionary measures necessary. Service crews and firemen also took special instruction to equip them to handle their duties.

Funk stated that the system is operated by controls on armrests on the seats. The system cannot be actuated until safety controls (used when the plane is on the ground) are removed.

The conventional ejection system works like this:

The crewman pulls a lever on the armrest of his seat. This fires a small charge (the primer) which creates pressure on a larger charge in the thruster. This ejects the canopy, after which the catapult ejects the seat. The firing is designed to take place only in that order.

Funk said the display contained a layout of the various devices which will go a long way toward acquainting all employees with the systems and their safety features.



BIG BOOM—SFC R. E. Hawkins of U. S. Army's Frankfort Arsenal explains to Rose Richardson, Dept. 22-0, how cartridge ejects seat from airplane. Display of cartridge actuated devices was shown at Fort Worth Plant Jan. 15.

★ Convairiety ★

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, news editor; Jack Lovett, Grayce Fath, Helen Pemberton.

FW Editorial Offices, Col. 71-C. Ext. 8245. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Industrial Relations, Palmdale, ext. 37 or 38. Staff: Betty Lou Nash.

Novices Win Major Roles In Next Play

Four people who never have been on a stage won four of the eight roles in Wing and Masque's next production, "Reclining Figure."

Pat Hedges will have the only female role in the play. Other new players are Bill Wilson, Wally Brown and Peter Van Der Vliet.

"They came to the tryouts and did very well," explained John Taylor, director. "They truly won their roles."

Other cast members are Bill Scarborough, Jack Cordaro, Roger Nicholson and Roger De Tonnancour. The play is a satire on art collectors and dealers.

An eccentric millionaire collector (Bill Wilson) buys art treasures and locks them in a vault so no one ever can look at them. A young art dealer (Wally Brown) purchases a precious painting for the collection—but the painting is a forgery.

Peter Van De Vliet plays the unscrupulous art dealer who is responsible for the forgery.

In the only female role, Pat Hedges plays the daughter of the rich collector.

Rehearsals now are under way each Tuesday, Wednesday and Friday night. Taylor invites anyone interested to watch the rehearsals. Work on the set is done on weekends.

Six performances of the play will be given at the CRA Playhouse, 2966 Park Hill Dr. Dates are Feb. 27, 28, and Mar. 1, 6, 7 and 8.

Next Free Movies Are 'Okinawa,' 'My Six Convicts'

CRA's next lunch-period movie offerings will be Pat O'Brien and Cameron Mitchell in "Okinawa," beginning Jan. 27, and "My Six Convicts," a psychological story dealing with life inside prison walls, on Feb. 3.

The movies are shown at the 50-foot aisle in line with a new policy for showing full-length films. Portions of the movies are screened on consecutive days until the showing is complete.

Hams Schedule Program on VHF

Paul Conant will speak on "VHF, Its Application to Ham Radio" at a meeting of the CRA radio activity at 7:30 p.m. Jan. 28.

Max Schelper, commissioner, said refreshments will be served at the meeting, which will include a business session.

Meanwhile, code and theory classes—general, novice and beginners—will begin in February. People interested should leave their name, department number and home telephone number at the CRA office.

Metallurgy Course Will Be Offered

Registration for an advanced course in metallurgy at Arlington State College will be accepted Jan. 29-30 at the college, according to J. C. Herr, chief metallurgist at Convair Fort Worth.

The course will be taught one night a week, with optional sessions on Tuesday or Thursday nights. For more information, contact Herr at ext. 2185.

Archery Season Ends

Archery shoots now are closed and will be resumed in the spring, according to H. L. Lucas, commissioner. When the activity resumes, shoots will be held at CRA's recently-lighted archery range.



BIG ACHIEVEMENT—Johnnie Herbert sketches booth to be constructed for National Junior Achievement Week and Management Club-sponsored companies. Display will be placed in Convair Fort Worth lobby. E. G. Hill, left, and W. H. Knight are JA advisors.

Convair Display Will Boost Junior Achievement Week

A display in observance of National Junior Achievement Week beginning Jan. 25 will be placed in the lobby at Convair Fort Worth to honor three Management Club-sponsored companies.

Prepared by Johnnie Herbert, the display will show products of Magnatoy, Ni-Glo and Woodvair companies. The three junior businesses have produced over 550 units since organization last September.

The display also will explain Junior Achievement on the national and Tarrant County levels.

Junior Achievement is a program for teaching high school youngsters the workings of a business corporation. Each company is composed of about 20 youths of high school age.

Each company is responsible for organization, selling stock, and selection, manufacture and marketing of a product. The business is liquidated and dividends declared at end of the school year.

"The program has had a tremendous growth during the past year," said E. G. Hill, JA program chairman. "This probably will be our most successful year."

In addition to the Convair display, Convair's junior achievers will help man a booth at the Southwestern Exposition and Fat Stock Show. JA products will be on display and orders will be accepted.

The Management Club will pick up the rent tab on the booth, which makes the display possible.

Products manufactured by the junior achievers also will be on sale at the March meeting of

the Management Club. Awards to the outstanding girl and boy achiever in each company will be presented at the club's May meeting.

Advisors to the JA companies are drawn from members of the Management Club, who donate time to the projects. Thus far, advisors have given over 650 hours of time to the assignments. Chief advisors are W. H. Knight, J. B. Rankin and E. E. Hatchett (acting for M. J. Scott who is ill.)

Magnatoy manufactures a magnetic toy and plans to produce a second item. Ni-Glo makes glowing lawn markers. Woodvair makes and sells ceramic mugs and thread holders.

Bridge Classes Begin At Clubhouse Jan. 31

A seven-week course for beginners and advanced bridge enthusiasts will begin at the CRA clubhouse at 6:30 p.m. Jan. 31.

Anyone interested should contact the CRA office, leaving name, address and telephone number. Fee for the course will be \$3.

Meanwhile, morning bridge sessions are under way in the area at 9:30 a.m. each first and third Wednesday. Play includes both duplicate and rubber bridge. Prizes are awarded.

Mrs. C. J. Hall and Mrs. Thomas Croft won first place honors at the first such session Jan. 8. Mrs. Robert Patton and Mrs. Herman Ankenbruck were second, and Mrs. R. L. McCreight and Mrs. G. L. Hutchinson, third.

'Additives' Subject Of ASLE Meeting

William Shaffer of Lubrizol Corporation will speak on "Additives for Lubricating Oils" at a meeting of the Dallas-Fort Worth section, American Society of Lubrication Engineers, at 7 p.m. tomorrow (Jan. 23) at Sky Chef Restaurant, Amon Carter Field.

Reconnu Elected

F. C. Reconnu, Dept. 25-3, was elected president of the Fort Worth German Shepherd Dog Club at a meeting Jan. 9. Reconnu operates his own kennel in North Richland Hills.

The club meets the second Thursday of each month at 7:30 p.m. at the Central Freight Office, 800 E. Berry.



Referees Had Trouble

Women's First Basketball Action Draws Praise on Girls' Skill

CRA women's basketball play is off to a fast start—and the gals' capers draw both chuckles and praise from men who know and love the sport.

First action saw Gerry Oliver's Red Tops defeat Cleo Bourland's Hot Shots, 32-21, and Amelia Jensen's Hustlers top the Globe Trippers, 25-19. Globe Trippers are captained by Jan Bain and Jean Byrd.

"They looked very good considering the fact that they had no practice," said commissioner D. R. Cooper. "They just came out and started playing."

Regardless, referees had a rough time of it. The girls were not yet familiar with the rules.

Next action begins at 7 p.m. Jan. 27 when Red Tops meet the

Hustlers at North Side Recreation Center, 18th and Harrington. Globe Trippers contest Hot Shots at 8 p.m.

Hot Tiff Looms In Basketball Action Tonight

A sizzling contest between Engineers and Rockets will initiate second half action in the Convair basketball league tonight at R. D. Evans Recreation Center.

Engineers were undefeated in first-half play, but had to muster all their skill to squeak out a victory over the Rockets in their first meeting. That one loss is the Rockets' only defeat.

But an improved Rocket team is slated to take the floor in tonight's action. Game time is 8:30 p.m.

In an earlier game beginning at 7 p.m., Snowbirds will tangle with Generals. Snowbirds have a 2-2 record and General have lost three.

In CRA league play, Flight Test boasts an undefeated record as they begin second half competition. The team meets winless Designers at 7 p.m. Jan. 28. Props, a one game loser, will meet twice-defeated Dept. 81 in a colse contest.

Nuclides, CRA's pride in the city's industrial league, is tied for first place with Burleson Feed with a one-loss record. Bombers are in third spot in Major City play with a 2-3 tally.

Gowins Keeps Crown In Washer Pitching

Wesley Gowins defeated D. W. Dickey to retain the washer pitching crown which he has held almost continuously since the washer activity was organized several years ago.

Dickey qualified as challenger by winning a tournament. Normally, the tournament winner tries to unseat the champion at the next tournament. The Gowins-Dickey battle was held in the plant when the men were unable to play it off in CRA's December tournament.

Gowins' next challenger will be Commissioner M. E. Goolsby, winner of the December tournament.

Softball Organizational Meeting To Be Held at CRA Area Feb. 5

People interested in playing softball—including women—are asked to attend an organizational meeting at 7 p.m. Feb. 5 at the CRA clubhouse.

Commissioner R. L. Evans said a women's league will be organized if there is enough interest. Evans said he expects 18 teams to play in three leagues this year.

"Of course, the number of leagues depends on the turnout at this meeting," he said.

Plans are to play all this season's games on lighted fields in the CRA area.

People attending the organizational meeting will discuss formation of leagues, nights of play, etc. Anyone who wants to play softball is asked to attend the meeting, except engineers.

People from engineering should contact Jimmy Haden, Ext. 2250, to play in the engineering league. Two CRA teams last season

won honors in out-of-plant play. A team lead by Robert Snow captured the title in North Teas Industrial Recreation Association play, and the CRA Kats went to the finals in city playoffs and were invited to the state tournament.

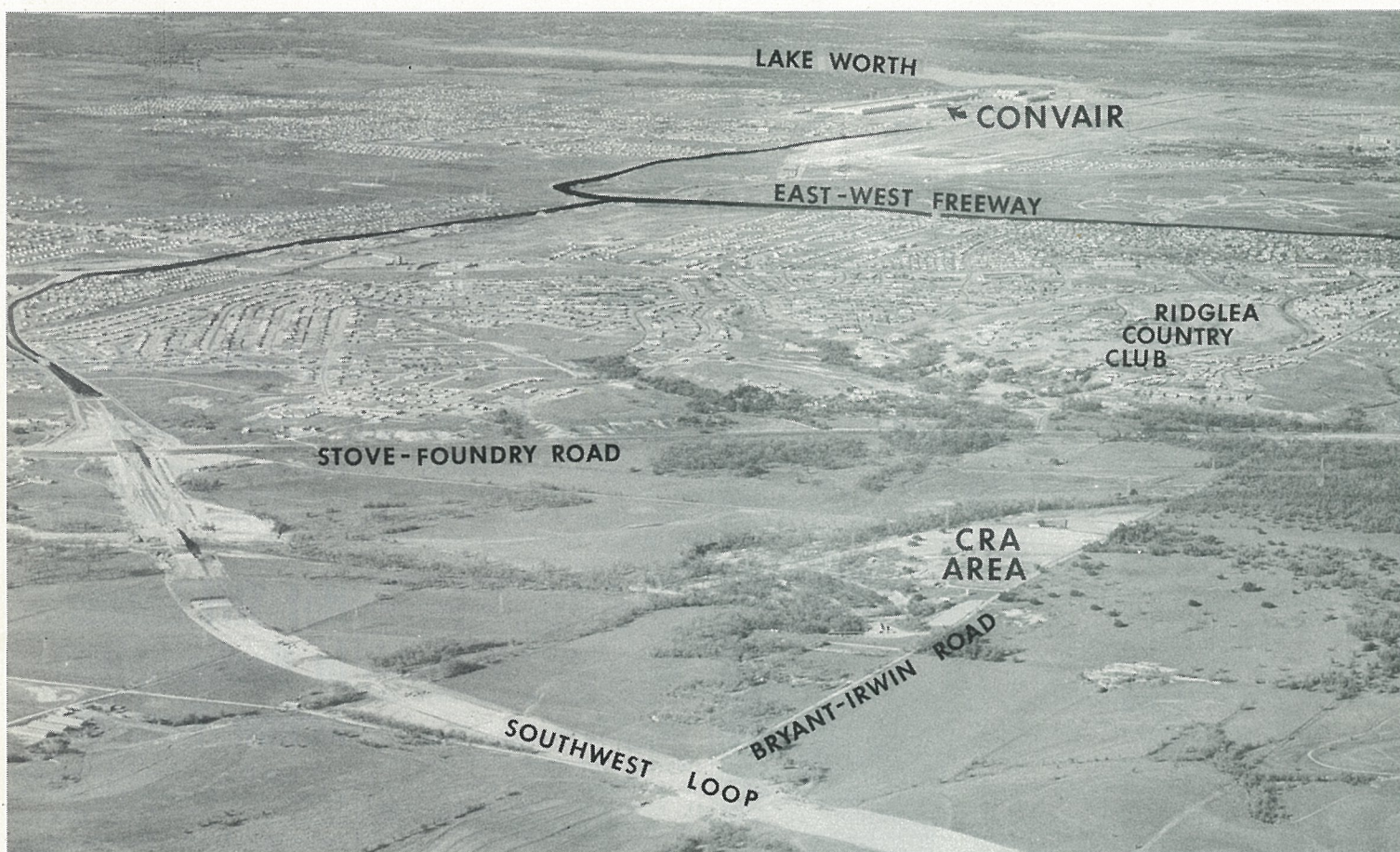
Skin Divers Meet At CRA Tomorrow

CRA skin diving enthusiasts will discuss a budget, needed equipment and plans for a beginners school at 7 p.m. tomorrow (Jan. 23) at the CRA clubhouse.

Donald Pressly, president, said the club plans weekly outings to area lakes this summer. The activity now has 40 members. The skin diving group operates under B. T. Frost, boating commissioner.



AWAY FROM HOME—Convair Fort Worth employees stationed at Eglin AFB in Florida get together for party. People are in Florida checking out B-58 fire control system.



SOUTHWEST LOOP—Construction progress on new Southwest Loop is shown here. It will give freeway-type access to Convair Fort Worth for employees living on the southside and communities

beyond. CRA area (in foreground) also will be served by new roadway. Work is due to be complete by January of 1959. Vast program will greatly relieve traffic problems.

Sebold Named IAS Fellow

R. C. Sebold, Convair vice president-engineering, has been elected a fellow of the Institute of Aeronautical Sciences, the highest honor the Institute can bestow.



Along with eight other national aviation professional leaders, he will receive the honor or Jan. 28 at the Institute's 26th annual meeting and honors night dinner in New York City. Sebold will be the only active Convair man belonging to the select group which have been recognized for outstanding technical contributions to aviation.

Chief speaker at the honors night banquet will be Sen. W. Stuart Symington.

Sebold has been with Convair more than a quarter of a century and was instrumental in the development of many of Convair's early planes. He is a native of Fort Wayne, Ind. and a graduate of Purdue University. He joined the company in Buffalo in 1929 and was among those moving to San Diego in 1935. In the fall of 1942, then a chief project engineer, he was transferred to Fort Worth where he took over as division chief engineer and was prominent in the development of the B-36. He was named Convair director of engineering in March, 1949 and in September of that year was elected vice president-engineering, a position he has held ever since.

Hustler Pod Designed For Atomic Warhead

(Continued from Page 1)

warhead to the target faster," Timmons explained. "Its high-speed delivery makes defense against the warhead more difficult than with any other aircraft."

The actual warhead will be supplied by Sandia Corporation, a division of the Atomic Energy Commission. Convair's responsibility is the installation, arming and fusing of the warhead.

In a normal bomb, "arming" is a method for making the bomb ready for firing. "Fusing" is the actual triggering of the bomb. The bomb cannot be fused until it is armed—thus making its storage and handling safe.

During pod drop tests, Kirtland is a gathering site for numerous representatives of agencies concerned. These include Convair, Atomic Energy Commission, Sandia Corporation, and Air Force Special Weapons Center.

W-2 Forms Slated For Mailing Soon

Withholding statement W-2 forms are due to be in the mail to Convair Fort Worth employees by the end of this week, according to H. R. Bean, payroll supervisor.

The statement going to each employee shows his total Convair earnings for 1957 and the total of withholding tax paid toward U. S. income taxes.

New 'Caper' Opens Way to Tapering Parts in Chemical Etch Process

Engineers at Convair Fort Worth have now developed a way to control the "appetite" of chemicals used to eat away excess metal from parts destined for the supersonic B-58 Hustler bomber.

And they do it so well that the chemicals can be used even to taper a part from one thickness at one end to half that thickness at the other end.

Use of chemicals to eliminate unwanted portions of metal parts is not new. But the process has been refined and adapted to aircraft manufacturing in the recently developed technique known as dynamic etch.

By means of this chemical process, parts which are difficult or impossible to manufacture by machine—whether they are flat, shaped or contoured—are milled to extremely close tolerances in a routine fashion.

Parts are placed in huge vats containing chemicals. The special formula chemicals eat away at the surface of the parts for a predetermined time, after which the parts are removed and rinsed.

This controlled removal of metal is used to reduce thickness or weight—especially weight. Convair's supersonic Hustler is pounds lighter thanks to the etching away of unnecessary "fat."

But the latest wrinkle—the tapered etch—is something new.

Manufacturing research and development people tackled the job and licked the problem with an ingenious "metering hoist" based on a controlled time immersion mechanism.

Depth of cut into the metal is governed by immersion time. The hoist lowers the part slowly to produce an ever-lessening depth of cut. The operation in some cases takes up to an hour and a half.

The hoist is automated to the extent that when the part is etched to correct dimensions, the hoist—in ten seconds—withdraws the parts from the chemical vat.

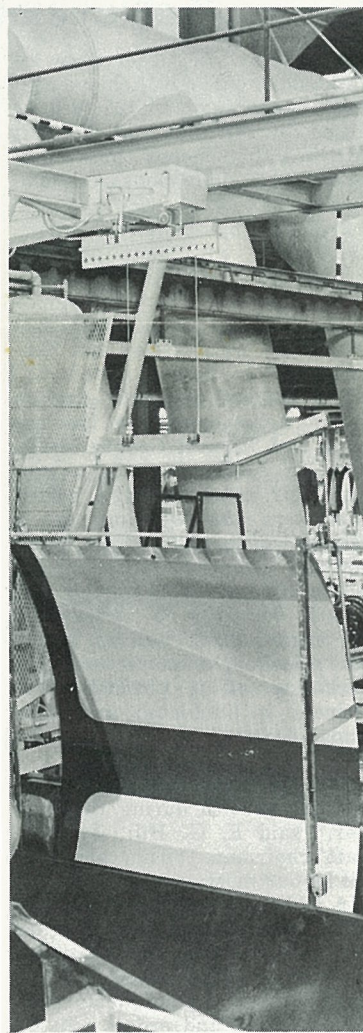
The result is an overall surface weight reduction that trims off pounds without sacrificing strength. Looking at such a part edgewise, the taper is almost too gradual to detect.

"The weight saved is a sizeable reduction when applied to several surfaces of the airplane," said E. G. Schick, manufacturing research engineer.

In designing the "metering hoist," research and development people were faced with operating in tanks which also are used in other etch operations. The hoist could not tie up the entire operation for long periods.

The special hoist was designed to ride on tracks beside the etch tanks, yet beneath a larger lift used in other operations. The two hoists can "pass" each other while using the same vats.

The "metering hoist" has both the hydraulic metered lift and a conventional electric hoist, thus allowing it to be used in normal etch operations when not needed for metered operations.



CAPER FOR TAPER—To taper metal parts by chemical, the metal piece is lowered at carefully predetermined rate into vat below.

FW Management Club Meets Tomorrow

Sam Cantey III will discuss plans for a campaign to promote Fort Worth at a meeting of the Convair Fort Worth Management Club at 5:30 p.m. tomorrow (Jan. 23) at Ridglea Country Club.

Cantey, vice president of the First National Bank, serves as chairman of the public relations and advertising committee of the chamber of commerce. His talk highlights the club's annual "Civic Night."

Entertainment will include "Uncle Willie" of Pappy's Showland in Dallas, and music by Sandy Sandifer's combo. Door prizes will be given.

B. M. McHarg is program chairman. New officers and board of control members to be installed at the meeting are sponsors of the program. They are:

R. P. Curry, president; M. R. Jackson and C. J. Keith, vice presidents; L. R. Gant, treasurer; John Watson, recording secretary; Bob Vollmer, corresponding secretary; and board of control members C. Allen, E. G. Henderson, L. M. Mayfield, J. E. Topliff and C. J. Hall.

It's Time to Apply For Scholarships

(Continued from Page 1)

are: Albert W. Jones, George J. Morrow, Robert E. Huddleston, James D. Outenreath, TCU; Edward L. Wills, Kenneth L. Whitt, Texas Tech; Johnnie Herbert Jr., SMU; Earnest F. Collins, University of Oklahoma; and Darryl Glen Albertson, Rice.

Applications for 1958 selections are available from Ellis at the north end of the second floor in the administration building.

The application and transcript must be received by Convair by March 31. Applicants will be notified of selections in May. Scholarships will be effective in September.

B-58 Visits Amon Carter Field During AF Acceptance Flight

Onlookers at Fort Worth's Amon Carter Field stared wide-eyed as a Convair B-58 Hustler touched down at the commercial airport Jan. 9.

People around several hours later got an even bigger thrill. They saw the world's fastest bomber roar down the runway and, seemingly, leap into the air.

"It got off in half the distance of the runway," said Maj. Fitzhugh Fulton, Air Force test pilot.

Fulton, who was making an Air Force acceptance flight in the plane, landed at the airport midway between Fort Worth and Dallas as a precautionary measure.

R. W. Moller, assistant manager of B-58 flight test, said Maj. Fulton "got a malfunction light" and chose to make a precautionary landing to check it out.

The landing immediately touched off Convair procedures followed in such a circumstance.

Moller headed a five-man flight test crew who flew to the scene to evaluate the situation.

Convair security guards arrived a short time later, followed by portable power units to start the B-58 engines.

The plane was given a complete turn-around inspection and was on its way home five hours after it landed. The landing was at about 11:30 a.m. Takeoff was at about 4:30 p.m.

"They did an excellent job getting it ready to go," Fulton said of the Convair crew. Fulton continued the flight to the Fort Worth plant, which is about 25 miles from Carter Field.

After acceptance, the plane will be taken to Edwards AFB by Capt. C. C. Bock, where Air Force phase IV flight tests will be conducted.

On the flight with Fulton were crewmen, T/Sgt. Robert Taylor, flight engineer; B. C. Schofield, test engineer.

Convair Ready if There's Big B-58 Demand

(Continued from Page 1)

interruption, contracts for production "on down the line" remain to be worked out.

"We're in a position to step up this program to whatever degree may be necessary," said Esenwein. "But how many B-58 weapon systems we produce—and how quickly we produce them—are still matters to be negotiated between the Air Force and Convair."

Reports from Washington which referred to the B-58 were included in coverage of statements attributed to Gen. Thomas D. White, chief of staff of the Air Force.

One report included a statement that SAC officers contend that the B-58 Hustler is the only weapon capable of carrying

atomic bombs to potential enemy targets as fast as is necessary until ballistic missiles are operational and are available in adequate numbers to assure defense of the U.S.

Esenwein said this week that Convair for some time has proceeded in the belief that "substantial production quantities" of the B-58 will be ordered by the Air Force.

He said that the company does not anticipate at this time that production orders likely will result in any substantial change in the company's plans or its employment levels.

He also recalled that Convair announced in November of 1957 that the Air Force had authorized the company to proceed with work required for B-58s beyond the first 30 weapon systems.

Is It News?

Call Convairity!



Published every other Wednesday by Convair, a Division of General Dynamics Corporation, for the benefit of Convair people everywhere.

Convairiety

Vol. 11, No. 6

Wednesday, March 19, 1958

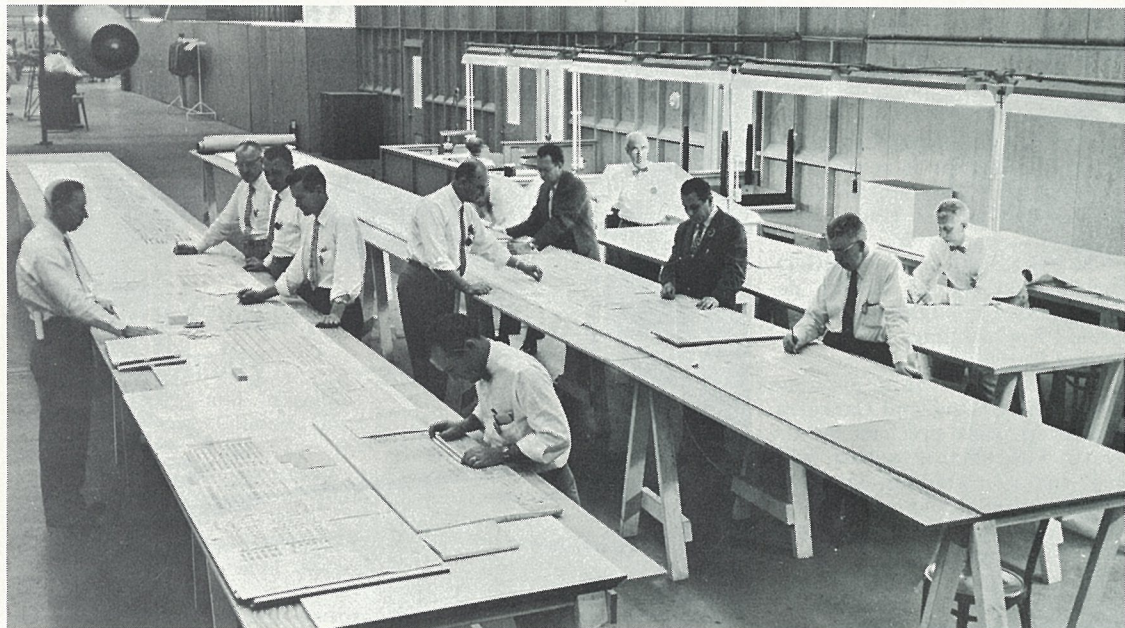
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SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

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BIG JIG-SAW—Members of Convair Fort Worth production planning team use tables 60 feet long to lay out plant's needs for stepped up production of Convair's B-58 Hustler bomber.

Phase II Test Program Over For Hustler

"It was the most interesting and educational test program in which I have ever been involved."

Thus a veteran AF test pilot, Maj. Fitzhugh Fulton, summed up some two dozen flights he made in putting Convair's supersonic B-58 Hustler bomber through its paces in the Air Force's Phase II test program.

The program was due to end this month.

"We have put the Hustler through a rigorous program at both subsonic and supersonic speeds — and tested the ship throughout its range of operational capabilities," Major Fulton said.

"My crew was top caliber and we all are proud of our role in the Air Force's initial evaluation of the B-58."

The Phase II test crew included Everett W. Dunlap, top AF project engineer; M/Sgt. Clifford Garringer; and 1st Lt. J. G. Armstrong.

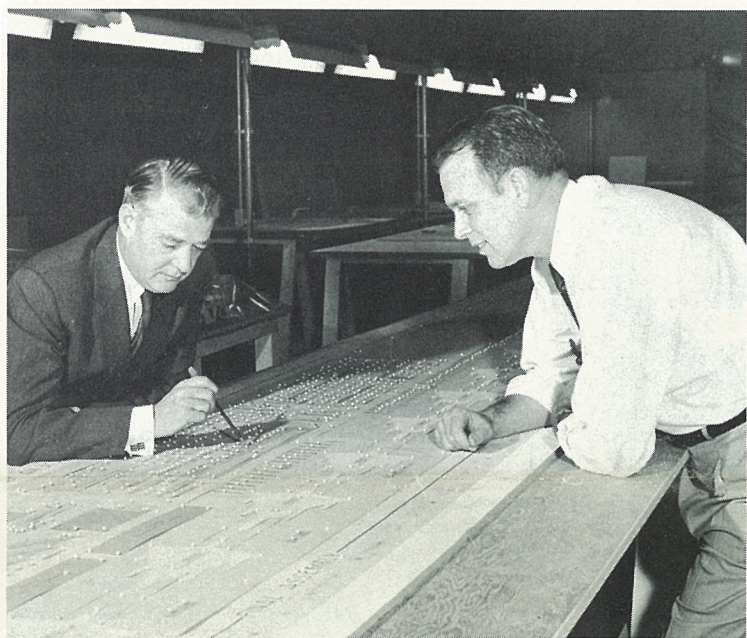
Dunlap, who mapped out the test program, said "the cooperation and help from Convair people was outstanding. Everyone seemed to 'bend over backward' to help us."

The Phase II program determines quality of performance and handling characteristics of a new airplane. It is the Air Force's first evaluation of a new weapons system.

In contrast to the extensive program conducted on the B-58, Phase II tests on Convair's YB- (Continued on Page 6)



LAST FLIGHT—Maj. Fitzhugh Fulton, Air Force test pilot, smiles from cockpit of Convair's supersonic B-58 Hustler bomber as Air Force's Phase II test program ends.



HUDDLE—R. A. Fuhrer and Ed Reynolds of Convair Fort Worth get exact picture of how one manufacturing operation will fit into overall production plan. B-58 plan is being laid out to assure best possible arrangement for smooth flow of production.

Plant Layout Studied For Step-up in B-58 Mfg.

Armed with scissors, colored paper, thousands of pins, and reams of information, a Convair Fort Worth team is piecing together a giant "jig-saw puzzle" on a couple of 60-foot tables.

The "puzzle," when solved, will give the overall layout of the plant's factory area for stepped-up production of the supersonic B-58 Hustler.

The jig-saw will produce detailed plans for production of the B-58 Hustler at whatever rates are required. The puzzle may eventually become a map—of the FW plant's future.

Scope of the plant-wide production study is unequalled in the division. Some 20 persons representing all manufacturing areas are on the special study team, according to R. A. Fuhrer, chief manufacturing engineer who is in charge of the program.

The team members have com-

Last Call Sounded On FW Scholarships

Last call went out this week for applicants to file for two scholarships offered to sons and stepsons of Convair employees.

J. B. Ellis, industrial relations engineering administrator, said March 31 is the deadline. The scholarships pay all tuition and \$250 a year to help sons or stepsons of employees attend college to pursue a course in engineering or an allied science.

plied listings of what would be needed for increased production in each area—and how much space should be allotted for each operation.

Space—that is the puzzler and the reason for the jig-saw. The team must find a way to fit all operations into Fort Worth's mile-long plant, to fit them in the most efficient way possible in relation to hundreds of other needs.

Some operations, due to huge permanent installations, must remain where they now are located. In fact, that is part of the jig-saw. The team must move as few operations as possible.

Yet, the completed layout must show a picture of an orderly flow of work.

This is where the scissors, colored paper and pins go to work. Team members actually cut out "paper B-58s" to exact scale. Machinery, work stations, equipment—each item becomes a paper cutout made to scale.

Using tables 60 feet long, team members fit the cutouts onto a floor plan of Convair Fort Worth's manufacturing areas. The floor plan is scaled an eighth of an inch to the foot.

"Our primary mission is to determine requirements from the standpoint of manpower, apparatus and space. With the layout, we can show the most feasible location for all aspects of the overall production plan," Fuhrer said.

Fuhrer said the two-month study is due to be completed on schedule, in April.

'Task Force' Formed For B-58 Testing

SAC, ARDC and Convair moved this week to team up at Carswell Air Force Base for the Air Force's new "B-58 Joint Task Force"—the first such task force in the history of the Air Force and industry.

The joint effort will complete testing and development

of the supersonic B-58 bomber, and at the same time will train SAC crews to operate the weapon system.

The task force approach to weapon system testing is designed to get the new airplane through the test phase and into operation in the shortest time.

Test aircraft will operate out of Carswell.

Lt. Gen. Sam E. Anderson, commander of ARDC, announced that Col. David M. Jones will command the 6592nd Test Squadron (B-58) and will coordinate all activities of the B-58 joint task force.

The task force will consist of Air Research and Development Command, Strategic Air Command and Convair.

Gen. Thomas S. Power, commander of SAC, announced that the first B-58 unit assigned to SAC — the 3958th Operational Evaluation and Training Squadron—was activated March 1.

The SAC squadron will participate actively in the test program.

Convair's role in the program will be the responsibility of the customer service department. J. T. Cosby, manager, said that Convair's effort at Carswell will be directed by Gus S. Green.

"Customer service functions will soon begin to swing into high gear," said Green, assistant manager of customer service. "We are prepared to help in every way we can to assure success of the Air Force test and training program."

The new customer service department was created in November "to help the Air Force get (Continued on Page 6)

FW Nuclear Shielding Chief Addresses IAS

Dr. Norman M. Schaeffer, chief of nuclear shielding at Convair Fort Worth, spoke on "Techniques in Aircraft Radiation Shielding" at the annual flight propulsion meeting of the Institute of the Aeronautical Sciences. The meeting was held March 13 in Cleveland, Ohio. Dr. Schaeffer's talk was given during a classified session.

A. F. Drysdale Wins President Award For '57

A. F. Drysdale, manufacturing research engineer, is winner of the 1958 President's Award—highest award offered to recognize cost reduction efforts.

Drysdale has been a contender for the award for three consecutive years. His cost improvement proposals have saved the division over \$185,000.

The 1958 award was presented by Gen. Joseph T. McNarney, Convair president, at the Convair Management Club meeting at Ridglea Country Club March 15. McNarney called Drysdale's CIP record "impressive." He was awarded \$250 in saving bonds.

In remarks about Convair's future, McNarney predicted that the B-58 "will provide a lot of work" in the next decade or so.

"Convair's faith in the technical advances designed into the B-58 has been vindicated. The B-58 has proved all claims about it," he said.

Remarking that Convair "already is in the space business," McNarney said "the mission of manned systems is not obscured by the temporary glamor of space flight."

"The B-58 is such a fine airplane that it will ultimately be required in the Air Force inventory by the hundreds."

"But we must bring out the B-58's finest features for every type mission—make it the most dependable, useful, serviceable airplane the Air Force ever had."

"And I cannot stress too strongly the need to improve the cost reduction effort."

McNarney recognized four other Convair Fort Worth employees whose efforts bore fruit in reducing the division's cost in 1957. The runners-up for the President's Award are P. M. Fruediger, Dept. 64; I. M. Pemberton, Dept. 30; J. L. Roberts, Dept. 35; and J. A. Waddle, Dept. 82.



PRESIDENT'S AWARD—Gen. Joseph T. McNarney, left, presents President's Award to A. F. Drysdale. August C. Esenwein, Convair Fort Worth manager, looks on.

Pushbutton Control Marks Terrier Missile Operations on Shipboard

BY JAMES COMBS JR.

(News Editor, Pomona)

The Terrier missile system used aboard the Navy's new guided missile cruisers, the USS Boston (CAG-1) and USS Canberra (CAG-2), is strong evidence of the arrival of the era of pushbutton warfare.

Almost without exception, every operation involving the Terrier from assignment of a target to firing of the missile is actuated by a button or switch.

Both ships can load and fire their Terriers at a rapid rate. To accomplish this feat—which is remarkable considering that the Terrier, with booster, is about 27 feet long and weighs approximately 2,760 lbs.—both ships are equipped with a complex, but highly efficient, maze of missile handling, storage and loading equipment.

Systems on both ships are essentially identical. Each ship has two missile batteries, and each battery is responsible for servicing one twin-missile launcher. Each launcher is serviced by a magazine and a missile overhaul and servicing room.

As each Terrier is brought aboard during replenishment, it is mated with a booster and stored, ready for firing (except for wings and fins), in a "ready service ring" in the magazine. There are two ready service rings in each magazine, one for each arm of the two-

missile launcher.

By merely pressing a button, any Terrier in the ring can be selected and brought into position for loading. After a missile has been selected, it is automatically removed from the ring and conveyed to the loading rail, where wings and fins are installed manually—the only non-automatic operation in the procedure.

Meanwhile the launcher is brought to a vertical position over the loading blast doors which are immediately over the loading rail. The doors open, and a "spanner rail"—an extension of the loading rail—comes up and makes positive contact with the rail on the launcher, giving the Terrier an unbroken track to travel over.

Another automatic device brings the Terrier up the loading rail onto the launcher, where it is positioned and secured. The spanner rail retracts, the blast doors close, and the missile is ready to be fired.

Though it sounds complicated—and is—the whole process from selection to firing takes only a few seconds.

Missilemen aboard ship, noting the similarity of the storage and loading system to a popular soft drink vending machine, call it the "coke machine."

Although each Terrier comes aboard ship ready for use, mis-

siles are given periodic checks in the overhaul and servicing room. All components of the missile are checked simultaneously with "go-no go" type test equipment.

If everything is in working order, the test equipment shows a green light. If something is amiss, however, red lights pinpoint the trouble and the faulty component is removed and replaced.

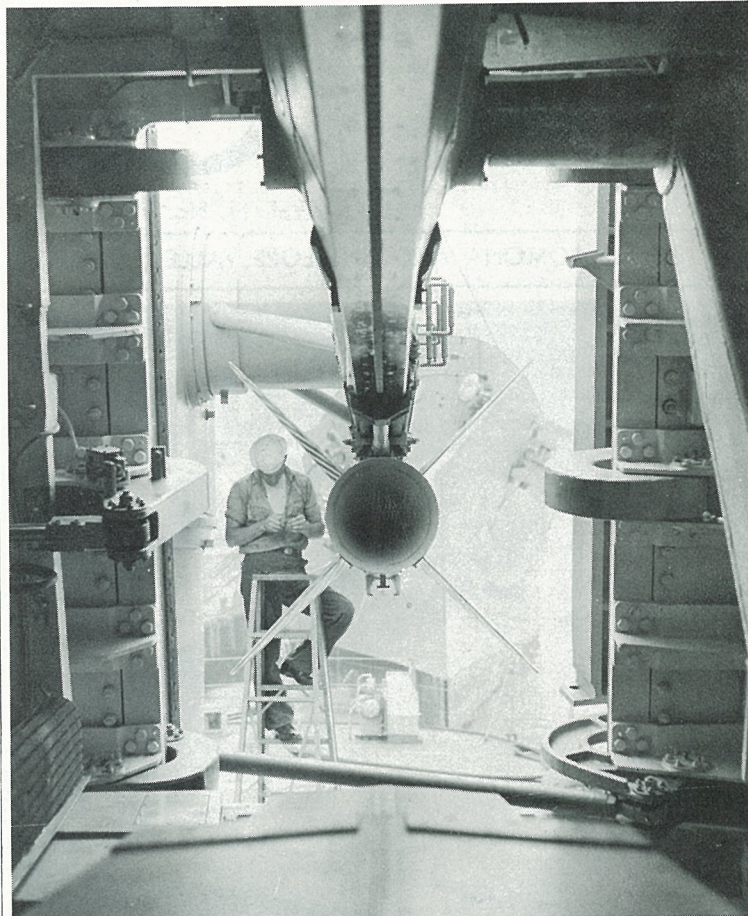
After the check has been completed, the Terrier is returned to the magazine and stored again in the ready service ring.

★ ★ ★

The USS Gyatt (DDG-1), world's first guided missile destroyer, uses a slightly different method for handling, storing and loading Terriers.

While space is at a premium aboard the Boston and Canberra, it is even more precious on the Gyatt. The ship is armed with only one twin missile launcher, and its missile room doubles as a magazine and an overhaul and servicing room.

The Terriers—the Gyatt carries fewer than the cruisers—are stored horizontally, rather than vertically, in two drum-type revolving service rings. Horizontal overhead loading rails are used to remove the missiles from the magazine, and transport them through blast doors onto the launcher. The launcher is also positioned horizontally, rather than vertically, to receive the

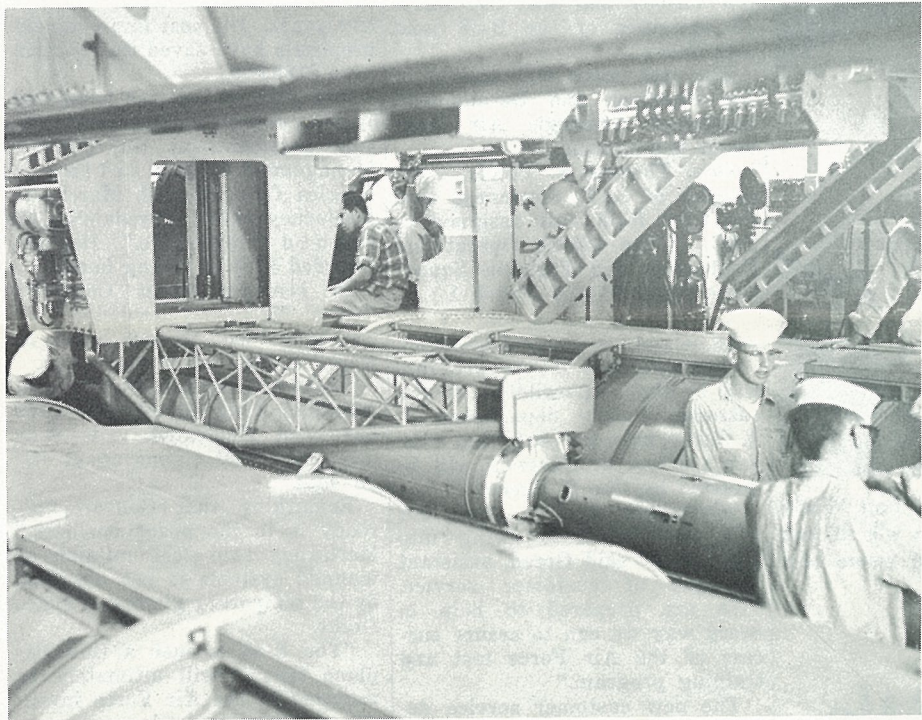


ON WAY OUT—Looking at aft end of Terrier, this is view as it leaves destroyer's missile room through blast doors and is loaded onto launcher.

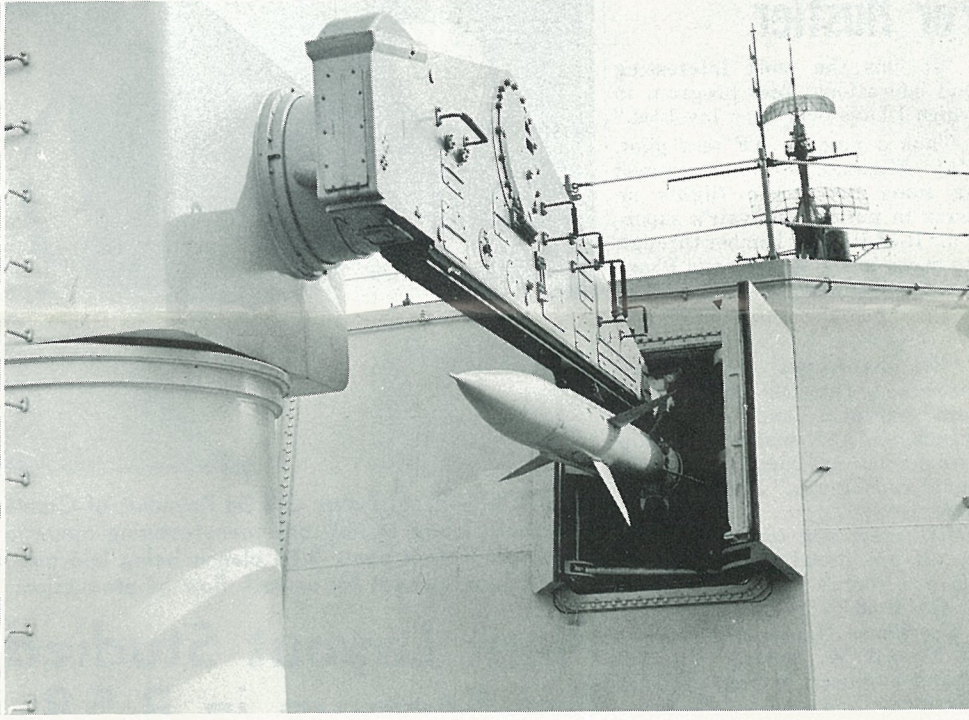
missiles for loading.

Space between the two "drums" is used as a checkout and repair area. As in the cruisers, Terriers are stored with boosters attached

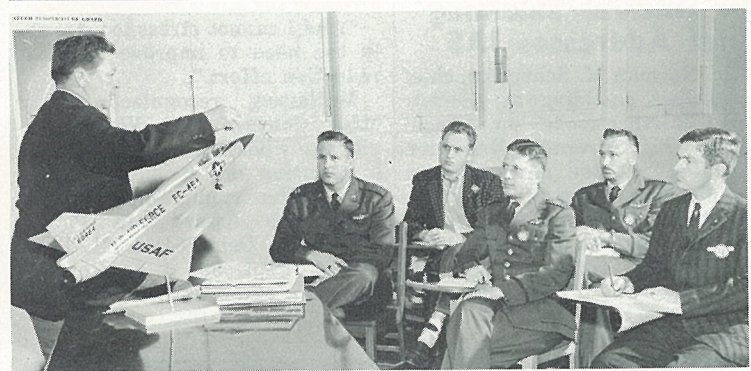
and are ready to be fired as soon as wings and fins are attached. Wings and fins are installed in a few seconds, while the missile is on the loading rail.



ABOARD THE GYATT—At left is interior shot of missile room aboard USS Gyatt, first missile armed destroyer, showing Terrier missile and booster between magazines. At right, Terrier emerges from missile room through blast doors onto



launcher. Note destroyer's loading system works horizontally. System used on cruisers (dubbed "coke machine") works vertically, with missiles coming straight up from below decks.



GROUND SCHOOL—Listening to SD Instructor L. J. Rice are Capt. H. K. Wimberley, J. B. Van Houten of Convair who will help in later instruction, Capt. T. R. Bogan, Maj. Glenn Crum and J. D. Eastham of Hughes.

Pilots Who Will Fly Phase Tests In F-106As Attend Ground School

Air Force pilots scheduled to perform phase testing on Convair's new F-106A interceptor in coming months will be students at a special school now in operation at San Diego.

The Air Force calls this two-week training period "operational indoctrination." Convair refers to it simply as pilot's ground school.

The first class began Feb. 12 and graduated Feb. 25. Another class wound up yesterday (March 18). About 100 students are expected to take part in the training between now and July.

Convair's production flight

training section handles the program. P. H. Selby is the coordinator. Instructors, all Convair flight engineers, are L. J. Rice, J. B. Van Houten, C. L. Johnson and C. J. Falkenthal.

Pilots are given a thorough briefing on the aircraft, schooled in its capabilities and then given an opportunity to discuss flight problems with a Convair test pilot who appears late in the course.

Convair ran a similar course for the F-102A. Over 1,000 pilots received this training at one time or another.

Pomona Division Has Crystal Ball

Engineering at Convair Pomona should now be the envy of engineering departments the world over. The department now has a genuine, honest-to-goodness, crystal ball.

What's more, this one can talk—and type. For those who haven't guessed, Crystal Ball is a new clerk in engineering's auxiliary power supply group. She works for Mike Voytish.

Convair Writers Score With 126 Technical Magazine Articles

During 1957 Convair sparetime authors produced 126 articles which were published in technical or trade magazines.

The writers were compensated (\$150 an article) for the Convair "writing award fund" designed to encourage publication of technical papers. The payment is in lieu of compensation which might otherwise be made by the maga-

zines accepting the articles.

San Diego Division writers were the most prolific, turning in 70 articles which ultimately were published. FW Division was next with 32, followed by Astronautics with 15 published articles. General Office writers produced five, Pomona Division three and Daingerfield one.

Most prolific and successful individual writer was Martin Blum of Astronautics whose by-line appeared four times.

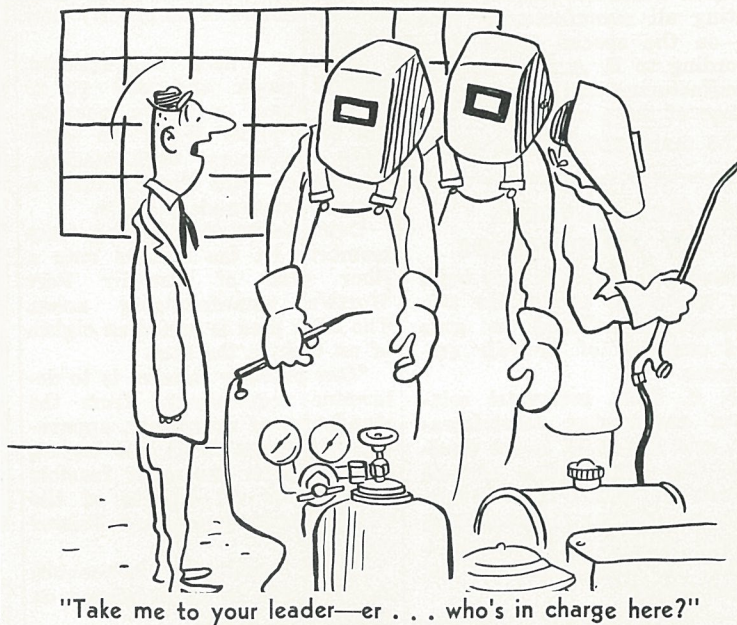
C. L. Hibert of SD Division scored with three articles as did Jeff Sutton, also of SD.

A respectable number had two published during the year, among them R. B. Hurley of Pomona Division and Chester May of Fort Worth. The latter wrote two in Spanish for a Latin American publication.

The Convair "writing award fund" was established in mid-1956. In the latter half of that year 41 articles were accepted for publication.

Subject matter is restricted to material of specific interest within the aviation industry.

Writers who have articles in mind should consult division public relations offices on procedure. Manuscripts must be submitted through Convair.



"Take me to your leader—er . . . who's in charge here?"

Management Course Slated For April 19

Ray Monsalvatge, former senior field director for National Management Association, will conduct a one-day management development workshop at Hotel Texas April 19.

John Watson, program coordinator, said Monsalvatge will present the program in four parts: public speaking, personality development, human behavior, and memory development. The program is sponsored by Convair Fort Worth Management Club.

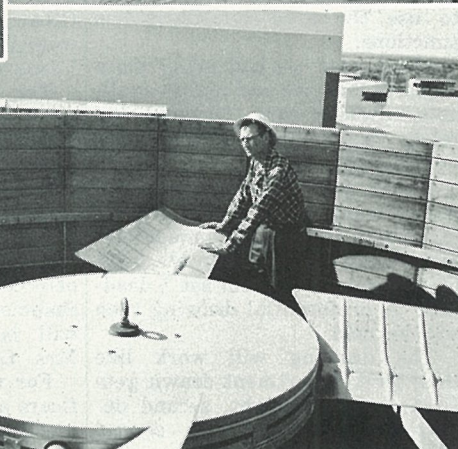
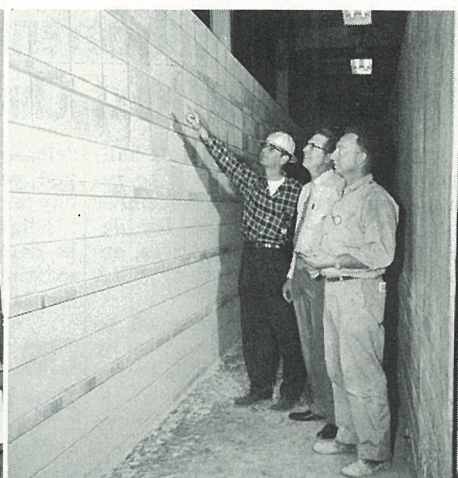
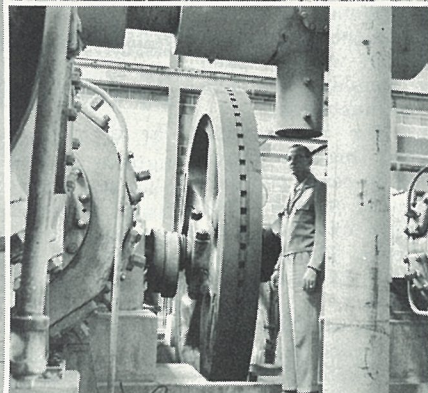
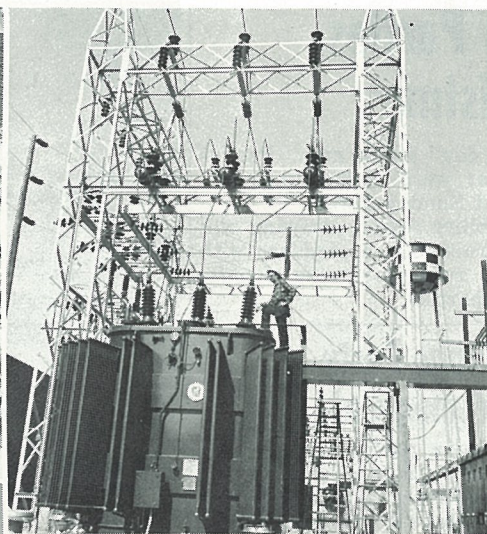
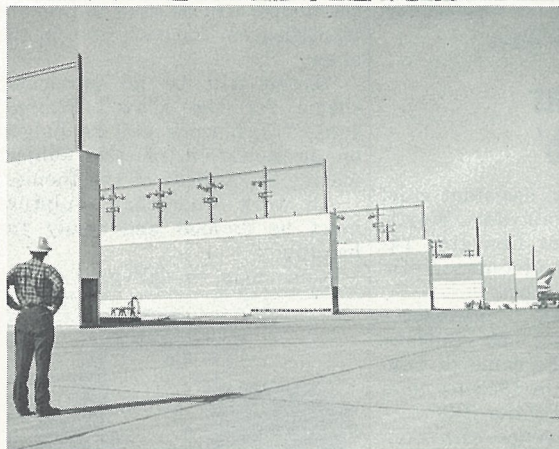
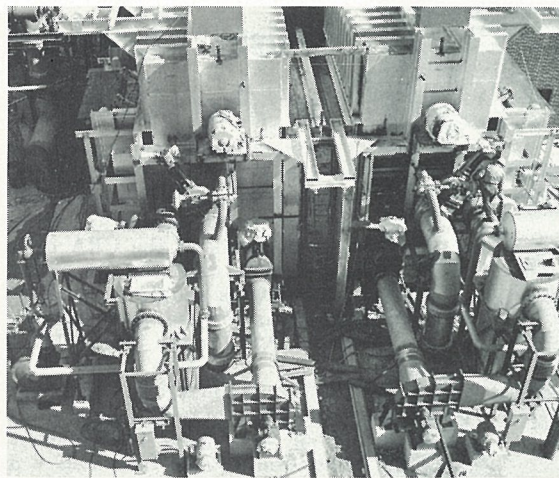
Cost will be \$5 per person. Luncheon will be \$2.25 per person. I. J. Smith is chairman of the Management Club's personal development committee.

Dept. 52 is February Leader in Quality

Pod primary and assembly (Dept. 52) was Convair Fort Worth's quality leader for the month of February, according to J. Y. McClure, manager of quality control.

The department's record was better than the prorated 20 per cent improvement target.

The monthly quality award plaque was presented by McClure. It was accepted for Dept. 52 by A. O. Watson and E. D. Routledge. The January plaque was won by B-58 wing primary and major mating (Dept. 57).



TRAVELING MAN—Shep Lampkin, liaison between plant engineering and current production projects at FW, takes photographer along on daily tour. Top left: view from five-story cooling tower shows "plumbing" on two small test cells for altitude test facility. Top center: Lampkin looks over new electric substation. Top right:

Frank Hartman of plant engineering and Gene King discuss boiler room partition with Lampkin. Lower left: new engine run stations for B-58. Lower center: Pete Ferguson and 12,000 hp compressor for altitude and temperature chamber. Lower right: Lampkin inspects fan on cooling tower.

New Technique Applied to B-58 Wheel Door Manufacture at FW

Adhesives and a glass cloth are combined in a new manufacturing wrinkle that promises to make Convair's B-58 Hustler bomber both easier to build and less expensive.

The technique now is being used only on B-58 wheel doors, but its use in other areas is being investigated.

Like doors on an automobile, wheel doors on the delta-wing B-58 must be built with "lips" which allow them to shut tight, yet provide a smooth external surface.

These lips were troublesome, causing Convair Fort Worth's manufacturing research and development department to try for a new manufacturing technique.

Wheel doors now are produced one third faster than by the former method. The new way eliminates need for critical tolerances on the internal skin in honeycomb wheel door construction.

The internal skin was carefully formed to assure a perfect fit—thus a perfect bond—over the honeycomb and lips. The honeycomb likewise was precision machined to assure a snug fit.

But when the external and internal skins and the honeycomb

were brought together, it took considerable time and precision assembly to make everything fit.

And the completed panel often required extra work to bring it up to standards, regardless of the care used in the bonding process.

Robert Thompson and Dwight Mason, manufacturing research engineers, came up with the flexible bonding technique which eliminates the troublesome voids at the lips.

"The plastics and fabric now used are equal in strength to a like thickness of aluminum," Thompson said.

The plastic and fabrics are as easy to handle as adhesive tape. After fabrics are applied, the panel goes into an autoclave, which hardens and bonds the entire panel.

Expensive forming tools are no longer necessary to form the inner skin, and elimination of close tolerances in the honeycomb core has reduced costs.

Formerly precision machined, the core now is sawed to dimensions.

"The technique saves about one third of the time it formerly took to manufacture a panel," Thompson said.

Score of FW Construction Projects Show Steady Day-to-Day Progress

Keeping up with "work in progress"—and making certain that the necessary progress is being made—is a full-time job at Convair Fort Worth.

And it makes Shep Lampkin one of the "rovin'est" Convair people anywhere.

Lampkin's job sends him on daily tours of the entire plant area as plant engineering department's liaison man on 15 to 20 construction jobs—and the jobs are from one end of the mile-long plant to the other.

"It is a continuous job of circulating," Lampkin said.

Lampkin keeps key people informed on progress of projects—F. C. Clayton, chief plant engineer, M. E. Messersmith, chief plant design engineer, and others.

Jobs under way now range from the building of a partition up to the construction of a multi-million dollar high altitude test facility.

The altitude test facility is due for acceptance tests this year. It is the largest project in re-

cent years at Convair Fort Worth. A cooling tower for the chamber's extreme low temperature capabilities compares in size to a five-story building.

The tower is a solid maze of red wood slats. Three 16-foot blades powered by three 60-horsepower motors will circulate air through the tower.

Three steel test chambers will be stainless steel-lined with foot-thick insulation. Machinery for simulating high altitude conditions is in an adjoining building. The machinery includes a 12,000-horsepower compressor for the air system.

Demands for electric power will increase when the chambers go into operation, but a new 12,500-KVA electric substation now under construction west of the plant will up the plant's capacity by 50 per cent.

Three new engine run stations of improved design are due to be complete in April. The new stations will enable tests to be run on as many as five airplanes at a time.

Stations are constructed of sound-absorbing material to reduce engine noise during tests of Convair's supersonic B-58 Hustler. Each station has underground connections for ground support equipment. Framework is of steel which will permit addition of roofs if desired.

A "smaller job" under plant engineering is construction of masonry walls along a busy pedestrian passageway through boiler rooms between factory and administration building.

Heavy demands on Fort Worth's water system will be eased this summer by use of a two-million-gallon reservoir recently completed at south end of the plant. The huge concrete tank, one of the largest of its type ever built, was designed by plant engineering.

Convair Fort Worth got the tank to eliminate water shortages during peak summer loads on the city system. The tank will be filled during low-usage periods each day.



TIMESAVER—Winnie Reese, Dept. 35, uses adhesive and glass cloth to prepare for final stage bonding of honeycomb wheel door panel of Convair's B-58 Hustler bomber. New technique is much easier than former method of forming all-metal bond.

B-58 Mockup, Once Star Attraction At Fort Worth, Out of Limelight

Convair Fort Worth's first mockup of the B-58 gathers dust these days, but the full-scale model once played a vital role in the Hustler's development.

The mockup still has an occasional visitor, but the bustling activity of the old days is gone.

It seems no one wants to look at a B-58 that can't fly.

In its heyday, however, the mockup area was like a giant stage. The B-58 was the star attraction. It drew plenty of attention then.

Engineers came to look, then went back to drawing boards to improve design.

"That first B-58 was a show-piece," said C. Houpp, Dept. 65 general foreman. "Congressmen, generals—they all came to see the pattern for the world's first supersonic bomber."

Although it still looks as potent as a production model, it was built with hammer and saw—plywood over a steel framework. Without it, however, Convair Fort Worth could never have built the kind of B-58s that do fly.

The mockup is in a closed area just off the plant's 50-foot aisle. The area was put under 24-hour industrial security guard when

the delta-wing model began to take shape five years ago.

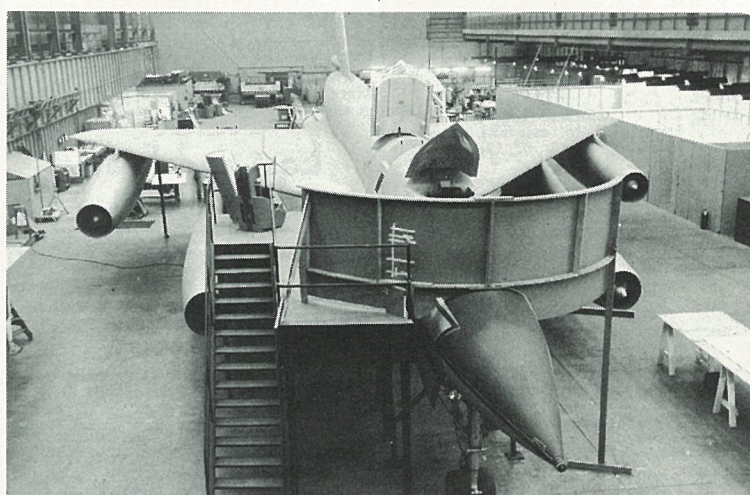
Work began on the mockup in 1953. Later the same year some 170 pattern makers and mockup builders hurried to complete it. W. A. Shahan, foreman, and R. R. Stewart, assistant foreman, still work in the area.

The preliminary model was used in space studies, demonstration of ground clearances, pilot

vision in landing and takeoff attitudes, and many other matters.

It was wired with electricity and instrument panels were lighted to determine best arrangements. Landing gears operated electrically.

As improvements were called for, the mockup crew "kept the plane up to date." A second mockup built of metal then began to steal the limelight.



GROUND—This is one Convair Fort Worth-built B-58 that will never try its delta wings. Most of plane is constructed of plywood.

New Rules Will Govern Parties In CRA Area Next Christmas

Convair Recreation Area's ballroom and dining area will be reserved each night next December prior to Christmas Eve for departmental Christmas parties, according to Milt Stewart, CRA president.

All requests, however, must be submitted to the CRA office by August 1. A drawing will determine the party schedule.

CRA council voted for the move in order to accommodate more of the many departments that want to use the area for Christmas functions.

"Last year we had many more requests than we had nights available," Stewart said. "Requests already are coming in for dates next December."

Under the new plan, departments wanting to hold a Christmas party in the area should submit a written request to the CRA office prior to the August 1 deadline. A preferential drawing then will be held.

The drawing will work like this: first department drawn gets first choice of night, second department drawn gets second choice, etc.

Each night in December prior to Christmas Eve will be available for parties, including most Mondays. Monday normally is a

"closed day" at the area. Parties last year were limited to Saturday and Sunday nights.

Eligibility for the drawing will be determined in accordance with existing rules governing departmental parties.

CRA Bingo Party For Women Only

The bingo party scheduled for first shift CRA women in the CRA clubhouse April 2 is for women only, according to Winnie Leonard, commissioner.

The announcement was made after a number of women asked whether they should also make reservations for husbands.

Reservations for the session will be accepted through March 30. Fee will be 25 cents per person, with a number of nice prizes offered, including one \$10 merchandise certificate. The program will be preceded by music by Mrs. Lucille Muth.

For reservations, call these officers after 5 p.m. each day: Winnie Leonard PE 7-9554; Lil Graham WA 3-0113; Lois Tidwell TE 8-9977; Virginia Jones JE 6-7388; Ann Stockman JE 6-2143; or, in-plant, Jean Cassidy Ext. 4108.



H. W. Hinckley

Hinckley Joins '25-Year Club'

H. W. Hinckley, assistant chief engineer at Convair Fort Worth, joins the ranks of Convair's exclusive fraternity of quarter century people this month.

Hinckley joined Consolidated Aircraft Company at Buffalo, N. Y., in 1933. He came to Convair Fort Worth in 1942 as chief project engineer on the B-36.

During his 25 years with Convair, he helped develop and produce the company's PT11 trainer, P2Y-2 Navy bomber, PBV Catalina patrol bomber, PB2Y Coronado patrol bomber, B-24 Liberator bomber, and the supersonic B-58 Hustler bomber.

Artists Should Pick Up Entries For Art Center's Convair Show

Convair people planning to enter the Fort Worth Art Center's show for Convair artists may now pick up entry blanks and information sheets at the CRA office in the plant, or at the Art Center.

All entries should be complete and items for the show delivered to the Art Center before March 29.

E. D. Weimer, CRA art commissioner, said an entry blank should accompany each person's submitted works. Information on the blanks will be used to prepare identification for each item in the show.

"There will be no particular theme for the show," Weimer said. "Each work will be judged on presentation of the subject matter, regardless of the theme."

All work other than sculpture must be framed and ready for hanging.

Items may be delivered to the

Montgomery Street entrance of the Art Center between 9 a.m. and 5 p.m. on March 28 or 29. The show will be open to the general public April 8 through 13.

John Palmer Leeper, director of the Marion Koogler McNay Art Museum of San Antonio, will be judge of the show. Purchase prizes offered by Convair and Convair Recreation Association are \$300, \$200 and \$100.

Outdoor Art Classes Will Be Formed

People interested in outdoor water color painting and sketching classes are invited to sign up at the CRA office, according to E. D. Weimer, commissioner. The classes are for second-shift people and others who want to participate in the summer activity.



EYE PIECE—Don Hennrick, right, demonstrates mirror-grinding table for CRA's 19-inch telescope. Art Gilligan, astronomy commissioner, is at left. Object on table is for 12-inch telescope. Hennrick will talk about scope at meeting of astronomy activity tonight.

The Passing Years...

Fort Worth

The following service emblems are due during the period March 16 through March 31.

Twenty-five year: Dept. 6, H. W. Hinckley.

Twenty year: Dept. 2, J. Y. McClure.

Fifteen year: Dept. 4, C. M. Carrington, H. Ray, L. V. Watson; Dept. 6, R. Collinsworth, J. R. Nix; Dept. 7, H. E. Crossan, J. L. Young.

Dept. 8, H. C. Perkins; Dept. 9, E. H. Clingman; Dept. 14, E. W. Anz; Dept. 15, C. M. Frady; Dept. 17, M. B. Gross.

Dept. 19, P. Baxendale, L. P. Franklin, L. M. Hodges, G. T. Walters; Dept. 20, W. Britton, J. A. Lindsey, R. L. Matthews Jr.

Dept. 22, R. S. Atwood, J. A. Beil, H. W. Ford, B. B. Herndon, L. H. Inman; N. A. Portwood, T. G. Vines, C. R. Williams.

Dept. 24, S. M. Blanton, T. H. Brookman, D. A. Darby, G. L. McMillan, J. G. Neal, E. A. Phillips; Dept. 25, T. W. Linchan, F. H. Richardson, E. U. Stolp.

Dept. 26, C. E. Giesen, P. Radford; Dept. 27, L. C. Gilbert, J. C. Messick; Dept. 29, J. C. Downs; Dept. 31, G. L. Barton, F. H. Behrens, L. V. Davidson, H. D. Dupree.

Dept. 32, M. K. Henson; Dept. 36,

H. T. Earney, L. R. McClain; Dept. 41, R. J. Favors; Dept. 42, G. L. Jenkins; Dept. 44, F. B. McInnis.

Dept. 46, L. J. Brooks; Dept. 54, J. W. Sizemore; Dept. 57, C. E. Bays; Dept. 58, O. E. Gryder.

Dept. 64, W. O. Cruce, T. R. George, G. H. Gifford, L. L. Morgan, J. O. Newberry, C. D. Purselley, D. E. Williams, N. O. Williams.

Dept. 65, E. L. Bryant, C. R. Parton, D. B. Purselley, L. M. Sanderson, F. C. Thatcher, R. L. Thompson, C. J. Turentine; Dept. 73, P. H. Kendrick.

Dept. 81, W. T. Benbow; Dept. 82, W. L. Fair, J. G. Singleton, H. L. Veal; Dept. 95, A. V. Davidson, S. E. Shumate.

Ten year: Dept. 4, L. G. Monroe; Dept. 6, J. M. Scott Jr.; Dept. 7, J. B. Kaufman; Dept. 15, D. L. Redmond, E. C. Royall.

Dept. 22, A. L. Lewis; Dept. 24, F. H. Cook; Dept. 29, J. E. Everidge; Dept. 31, P. T. Bevil; Dept. 32, S. E. Fults; Dept. 42, S. P. McCoy.

Dept. 44, G. E. Carille; Dept. 46, R. C. Howington, J. E. Meyer; Dept. 56, M. E. Gray; Dept. 65, C. J. Kitchens, H. L. Moore; Dept. 73, I. L. Floyd.

Daingerfield

Five year: Dept. 2, C. H. Ragland.

Women Get Tips For Easter Bonnet

"Tips on Making That Easter Bonnet" will be theme of the next morning session of CRA women at 10 a.m. March 26 at the CRA Clubhouse.

"If you ever wanted to make your own spring hat," said Mary Smith, commissioner, "now is the time to get the real know-how."

Door fee will be 25 cents. Nursery will be available at a fee of 25 cents per child.

The club's April meeting will be a show of spring fashions sponsored by Cox's and CRA. Tickets are 75 cents and are now on sale at the CRA office or from club officers. The show will be April 9. Ticket sales end April 7.

IRE and AIEE Host 'Propulsion' Session

H. S. Seifert of Ramo-Woolridge Corporation, Los Angeles, will speak on "Low Thrust Propulsion by Means of Accelerated Particles" at 8 p.m. today (March 19) at Fort Worth Children's Museum.

Seifert will talk to a joint meeting of Fort Worth sections of Institute of Radio Engineers and American Institute of Electrical Engineers.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective March 3 are:

Dept. 4: to material liaison man, T. L. Maclin.

Dept. 6: to design engineer, G. G. Cathey, C. T. Hicks, D. L. Hicks, B. W. Newland, D. L. Roesler; to senior design engineer, W. C. Hand Jr., R. H. Hands, C. R. Redden, J. W. Rost; to structures engineer, D. G. Billingsley, R. L. Haller, B. H. Hillis Jr.; to senior structures engineer, W. F. McInturf, R. N. Morton; to test engineer, R. J. Wren; to flight test engineer, R. D. Crabtree, E. E. Olive; to senior flight test engineer, J. E. Carson III, L. O. Montanio, O. W. Wood Jr.; to senior aerophysics engineer, C. E. Craig; to project aerophysics engineer, J. W. Tucker III; to project nuclear engineer, J. Romanko; to project systems installation engineer, G. W. Stewart; to administrative assistant senior, H. F. Allen; to engineering drawing checker, C. H. Flanagan.

Dept. 7: to development liaison man, R. V. Hall, V. J. Lombardi, G. F. Nobles, E. H. Potet, D. W. Priddy, I. M. Stewart, J. A. Story.

Dept. 12: to reserve captain, E. E. Guthrie Jr.; Dept. 16: to project industrial engineer, A. F. Gough; Dept. 27: to supervisor, J. M. Winn.

Dept. 28: to associate engineer, J. R. Brown; Dept. 64: to assistant foreman, J. C. Patterson; Dept. 82: to assistant foreman, S. T. Lanier.

Dept. 85: to senior customer service engineer, G. W. Clifton; Dept. 94: to assistant foreman, R. W. Bunn, A. W.

Cain, W. D. Lewis, M. C. Paulk; to foreman, C. A. Liles, M. S. Savoy.

Dept. 96: to assistant foreman, F. E. Brinkley, F. F. Craig; to foreman, W. T. Henders.

Awards

The following received Employee Suggestion awards totaling \$272.50 for the period ending February 25:

Dept. 6, B. G. Yeaman; Dept. 17, M. R. Robinson; Dept. 27, G. T. Teague, R. J. Roberts.

Dept. 31, G. A. Young, L. M. Swan; Dept. 42, B. R. Mackey; Dept. 57, M. S. Fuller; Dept. 64, K. Russell.

Births

CLEMMER—Stephanie Conwell, daughter, 6 lbs. 11½ ozs., born March 3 to Mr. and Mrs. R. S. Clemmer, Dept. 6-6.

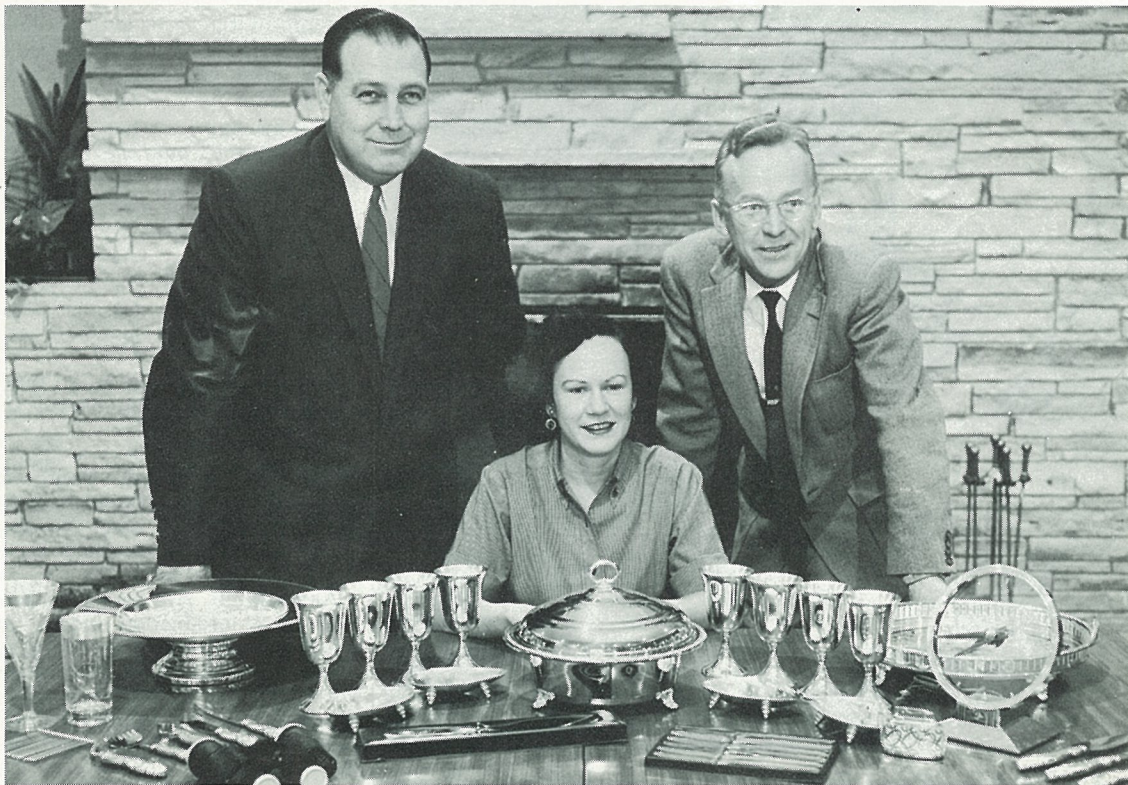
Deaths

BURNETT—H. P., 47, Dept. 65, died March 8. He is survived by his wife and three sons.

REYES—Jessie S., 36, Dept. 54, died March 11. Survivors are his wife and mother, four sisters and three brothers.

Lost and Found

FOUND—Box of color slides and viewer. Pick up at employee services, 50-foot aisle.



SILVER SETTING—Officials of annual CRA bridge tournament show some of prizes offered. G. P. Anderson, right, is commissioner of bridge. Mrs. Herman Ankenbruck is bridge club president. I. B. Hale is member of tournament committee.

★ Convairiety ★

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, news editor; Grayce Path, Helen Pemberton.

FW Editorial Offices, Col. 71-C, Ext. 8245. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8. Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.



ON YOUR MARK!—These Convair youngsters are already set and ready to go after eggs left by Easter bunny. Picture was snapped at CRA area during last year's hunt, but this year's event is expected to be even bigger.

Rabbit to Hide 18,000 Eggs For Big Hunt in CRA Area

CRA's plant recreation committee will purchase over 18,000 Easter eggs for an expected 4,000 children who will take part in this year's Hunt in the CRA area April 5.

Jim Shackelford, chairman, said 15,000 candy eggs are on order and that some 3,600 hen eggs will be dyed for the hunt.

Prize eggs will be hidden for a number of prizes, and other prizes will go to the youngest child participating, and to the largest family present for the

hunt. A "surprise" event will be a feature for all children.

"If the weather is good, it should be a fine afternoon for the children," Shackelford said. The hunt is scheduled to begin at 1 p.m., first time it has been scheduled in the afternoon. The afternoon time will enable more people to get out to the area.

Marked areas will be used for each of three age groups. Eggs will be hidden for children under 4; from 5 to 8; and from 9 to 12.

Roy Davis and Ross Carney also serve on the recreation committee. Egg hunt helpers include I. B. Hale, parking; Woody Beckham, gates; S.E.G. Hillman, surprise event; F. C. Clayton, sound; and C. J. Hall, eggs.

Jack Haynes will be in charge of "egg hiders," and Jim Harwell will "blow the whistle" to start the hunt.

Baseball Meeting Called Tonight

Employees interested in trying out for CRA's major baseball team should attend a meeting at 7 p.m. tonight (March 19) at the CRA building, according to Roy Jarl, commissioner.

Plans for the 1958 season will be announced at the meeting.

Model Plane Group Elects Clay Price

Clay Price, Dept. 6-4, serves as new president of CRA model airplane radio control club, and L. Barnett, Dept. 6-1, is vice president. Jess Shepard, Dept. 6-4, is secretary-treasurer.

The club plans to hold monthly contests at an old air field eight miles south of Arlington.

Meanwhile, model airplane enthusiasts are in preparation for a "rat race" event to be held at CRA April 20. The "rat race" contest is open to any type model airplane that will fly.

Cornelsen Wins Washer Tourney

Oliver Cornelsen got the range early and pitched to victory in CRA's washer pitching singles tournament held at CRA area March 8.

H. Goodspeed took second place in the singles tournament, and W. M. Pullin placed third. Thirty-four pitchers participated.

Carolyn Norman Takes State Title In Table Tennis

Carolyn Norman, CRA table tennis enthusiast, is the first woman from Fort Worth to hold the Texas table tennis singles championship—but she had to defeat her mother in the state tournament to capture the crown.

Lydia Norman, Carolyn's mother, pulled the tournament's biggest upset in defeating the perennial state champion, Marjorie Wilcox of San Antonio, in the semifinals.

Then, Lydia's skill had to take a back seat to that of daughter Carolyn, who won the finals and claimed the title.

The tournament was held at Sycamore Recreation Building last month.

Louie Lancer of CRA reached the finals in men's singles and was defeated by nationally-known Stanley Fields. B. B. Treese reached finals in the boy's division.

In mixed doubles, Louie Lancer teamed with Carolyn Norman to defeat Lydia Norman and Bob Ashley.

Golf Contest Opens Season This Saturday

Golfing gets under way for CRA enthusiasts with a sweepstakes event Saturday (March 22) at Rockwood golf course, according to L. H. Armstrong, commissioner.

Players will form their own foursomes and play will be on an individual handicap basis. Time is optional. The Peoria system of handicapping will be used. It works like this:

Six holes will be selected after all players have teed off. After a player finishes his round, he totals his score for the selected six holes, multiplies by three, then subtracts par for the course. The differences will be the player's handicap.

Players will be grouped in flights based on total gross score.

Daingerfield Hosts Model Plane Meet

Convair Daingerfield's CRA will host a model airplane meet at 2 p.m. Sunday (March 23) at Mount Pleasant Airport for all classes of control line operations.

The meet is open to all Convair employees and members of their families. Visitors are invited to watch the contests.

Golf Under Way At Daingerfield

First tournament in Convair Daingerfield's golfing season will be held on the Mount Pleasant Golf Course Saturday (March 22), according to W. D. Kennedy, commissioner.

Prizes will be \$8, \$4.50 and \$2.50. "The Mount Pleasant course is a good test of one's skill," Kennedy said.

Meanwhile, annual dues of \$1 are due by March 20. New golfers are reminded to establish handicaps prior to the first tournament.



Softball Season Opens in April; Over 20 Teams Will Participate

Two engineering leagues, a CRA league, a women's league, a possible second-shift league, and a team in NTIRA league—that's the prospects for the CRA softball season opening early next month.

More than 20 teams—and possibly as many as 27—may take part in the activity this year, according to commissioner R. L. Evans. Most games will be played on the new lighted diamonds in the CRA area.

"It looks like there will be games at CRA each night," Evans

said. "We still have room for more teams, but the deadline is March 21 (Friday)."

Twelve teams will comprise the two engineering leagues. Each team will see action one night a week. Jimmy Haden is softball coordinator for engineering.

The six teams in CRA league each will play twice a week at CRA, and the women's team will also play on CRA diamonds. Only three women's teams are signed, but another is being formed.

Evans said only one team has signed for second-shift play. Three more second-shift teams are needed before that league will be organized. Anyone interested in entering such a team should contact the CRA office immediately.

One CRA team will compete in the North Texas Industrial Recreation Association league. Convair is defending champion and competes against Chance Vought, Temco, and the Grand Prairie Naval Air Station. C. H. Hall will manage the NTIRA entry.

Volleyball Play Slated for Court In CRA Picnic Area

CRA's volleyball activity plans to open regular supervised play next month on an outdoor court in picnic area No. 1 at Convair Recreation Area.

Andy D'Ascenzo, commissioner, said volunteers from the regular volleyball league will help with the program at CRA area. Bob Jones will coordinate the program.

Jones said the outdoor play will be on an informal basis, with teams chosen from people present on a "first come, first play" basis. Everyone present, however, will get to play. Referees will be provided.

The sessions are to be held regularly each Thursday at 7 p.m. and each Saturday and Sunday from 3 to 5 p.m.

"No one will be under any obligation to appear regularly," D'Ascenzo said. "These games will be for people who want to play an occasional game but do not want to be in a regular league."

"Play will be extended to other nights if enough interest warrants it."

Instruction will be available for those who have never played the game. Volleyballs and nets can be checked out at the CRA clubhouse at no cost for groups who want to play during unscheduled periods.

D'Ascenzo said some 20 people drawn from regular volleyball leagues will assist in the play at CRA area. Anyone interested is invited to join the special group, or to participate in regular play each Monday at Southside Recreation, 215 W. Vickery.

CRA Roundballers Lose in Playoffs

CRA's city and state basketball hopes died like the wind this month as all teams ran into stiff opposition.

Nuclides, playing in the state tournament, lost two straight games and was eliminated. The team was beaten by Midland, 82-56, and by Grand Prairie, 62-50.

Engineers, who had a grip on the city class B championship, saw their chances fade in two games with the Jaycees. Jaycees won the first game by eight points, came back to win the play-off, 34-31.

Engineers, Nuclides, Bombers and Props are now in playoffs to determine plant championship.

Turner Is President Of Library Board

Lloyd L. Turner of Convair Fort Worth was elected president of the Fort Worth Public Library Board at a meeting March 12.

Turner, special assistant to Division Manager August C. Esenwein, was appointed to the 13-member board in 1953. He was elected first vice president in May 1957.

A proposal is now being considered for a \$925,000 bond issue to be voted to build four branch libraries and add one floor to the main library.

Activities Calendar . . .

Fort Worth

ART—E. D. Weimer, commissioner, ext. 5205. Art show in April; entry blanks, CRA office or Art Center; entries and work to be in by March 29, Art Center.

ASTRONOMY—A. E. Gilligan, commissioner, ext. 2177. Lecture meeting March 19, 7:30 p.m., CRA Building.

BADMINTON—H. R. Harrison, commissioner, Annex 1, ext. 32. Tournament March 21 and 22, noon, Waco.

BASEBALL—L. L. Jarl, commissioner, ext. 4250. Entry deadline March 19; play schedule to be announced March 24; play begins April 2.

BOATING—B. T. Frost, commissioner, ext. 3160. Movies on water safety, operation of outboard motors, March 19, 7:30 p.m., CRA Building.

BRIDGE—C. P. Anderson, commissioner, ext. 3226. Tournament March 21, 22 and 23, CRA Building.

CAMERA—Miles Rogers, commissioner, ext. 2294. Black and white print contest March 26, 7:30 p.m., CRA Building.

CHESS—R. W. Wooten, commissioner, Annex 2, ext. 302. Monthly meeting April 2, 7:30 p.m., CRA Building.

GOLF—Lawrence Armstrong, commissioner, ext. 8201. Sweepstakes March 22, Rockwood Golf Course.

MOVIES—March 24-28, "Here Comes Mr. Jordan" with Robert Montgomery; March 31-April 4, "Texas Rangers" (color) with George Montgomery. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner, ext. 3186. Operating night, March 27 and April 3, 7:30 p.m., novice code and theory class, Saturdays, 10 a.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

SKIN DIVING—B. T. Frost commissioner, ext. 3160. W. D. Pressly, coordinator, ext. 4280. Movie on techniques, March 27, 7:30 p.m., CRA Building.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each Thursday: beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

STAMP AND COIN—J. M. Frost, acting commissioner, ext. 7190, 7198. Stamp auction sale April 1, 8 p.m., CRA Building.

TABLE TENNIS—C. G. Barton, commissioner, ext. 2294. Play Tuesdays, 7:30 p.m., CRA Building.

VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 8131, 7297. Play Mondays, 7 p.m., Southside Rec. Building.

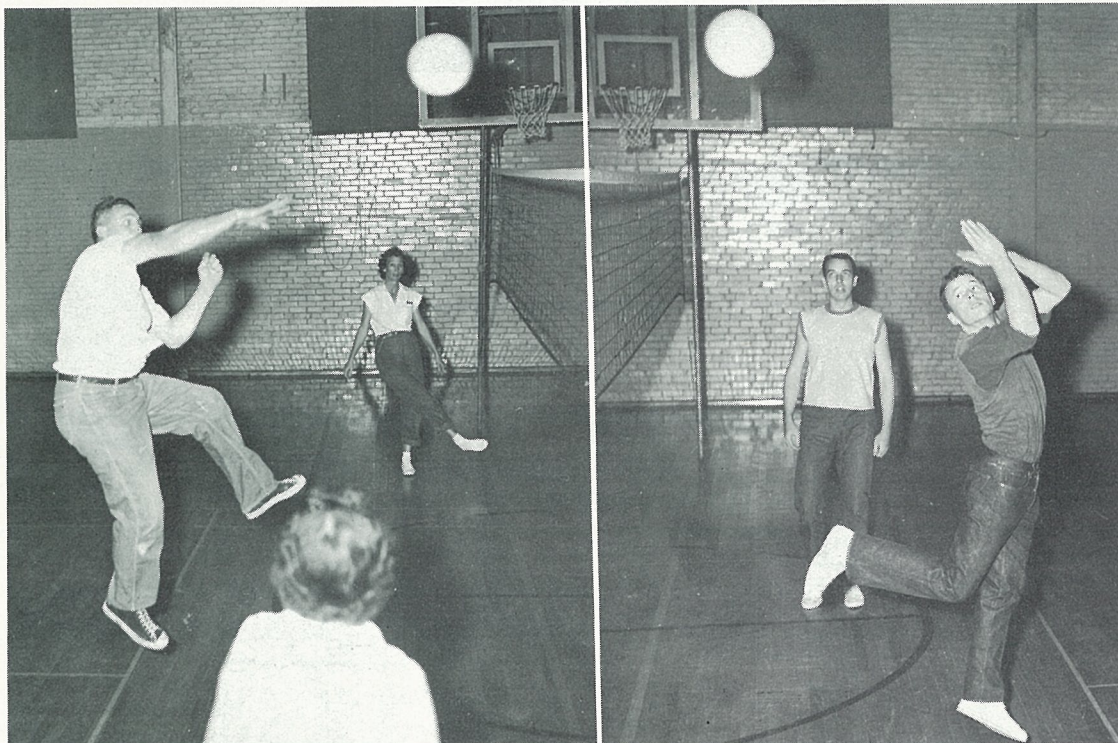
WOMEN'S CLUB—Winnie Leonard, commissioner, ext. 5201, first shift: Bingo party April 2, 8 p.m. Mary Smith, commissioner, ext. 4221, second shift: meeting March 26, 10 a.m. CRA Building.

Daingerfield

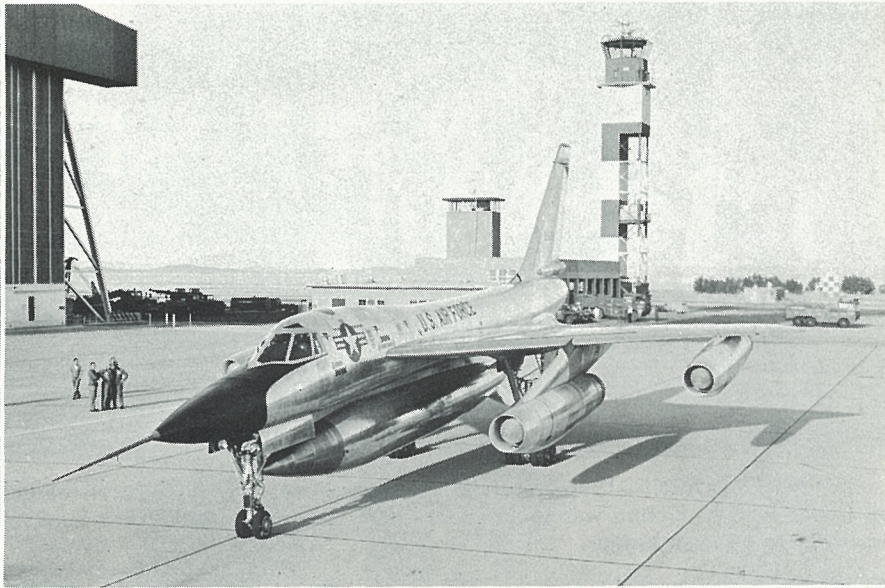
BRIDGE—J. R. Nazzal, commissioner, ext. 481. Party bridge second and fourth Thursday, 7:30 p.m. See bulletin board for location.

GOLF—W. D. Kennedy, commissioner. First Season tournament, March 22, Mt. Pleasant Golf Course. Annual dues payable by March 21.

TENNIS—J. R. Nazzal, commissioner, ext. 481. Practice for spring tournament each Sunday in March, 2 p.m., Daingerfield High School courts.



PASS?—CRA volleyball players seem to execute a pass play in football in these pictures. Actually, man on left "burns one over" net. Man on right, who looks like pass receiver, makes overhead return.



ONCE OVER—Convair Fort Worth crew stationed at Edwards AFB (above left) gives B-58 Hustler "once over" shortly after arrival for Phase IV testing. They will maintain ship during test program. At right is ship as it taxied in after flight from Fort Worth.

AF Photo-Intelligence Students Uncover 'Secrets' of FW Plant

To most people, the flat roof of Convair Fort Worth's mile-long building is pretty dull stuff. But to an experienced Air Force photo-intelligence man, the roof "talks."

It tells plenty, Convair Fort Worth people discovered last week during a visit of Air Force officers from Sheppard AFB.

The officers, photo-intelligence students of the 3750th Technical Training Wing at Sheppard, are using aerial photographs of the Convair Fort Worth plant as a case study. They visited the plant to see first-hand how well they

had interpreted the aerial photos.

The roofs of Convair's Fort Worth facility are some of the most unrevealing in the world, but builders could not hide smokestacks, could not prevent stains from appearing around vents, nor prevent shadows.

At Sheppard, each student is issued an aerial photograph of the plant. He attempts to identify the area, state what it manufactures, how supplies come in, where its various manufacturing stages are located within the buildings, how many people are employed, the plant's vulnerable points, etc.

Students then are brought to the plant for a tour. They actually see the various areas and see for themselves how well they did in their photo analysis.

"And, they were in many cases very accurate," said John Payne, coordinator of executive development. Payne led the tour.

Accompanying the group were Navy Lt. Cmdr. B. W. Decker, Air Force Capt. G. W. Boe Jr., and C. E. White of the training wing. Lt. Col. G. D. Mobbs, Maj. E. W. Hess, and Maj. T. A. Burda, training with industry Air Force officers assigned to Convair Fort Worth, assisted in the tour.

Max Clark, supervisor of security, and F. C. Clayton, chief plant engineer, discussed plant layout and construction with the students.

FW's G. D. Lee Speaks At Safety Meeting

G. D. Lee, senior design engineer at Convair Fort Worth, will speak on "Design Considerations to Prevent Fire and Explosion in High Performance Aircraft" at an industry-wide safety meeting today (March 19) in Santa Barbara, Calif.

The meeting will be an Air Force-Industry conference on fire and explosion prevention. It is sponsored by the Directorate of Flight Safety Research. Representatives from aircraft firms attend the safety conferences each two months.

Other Fort Worth people due to attend the conference are W. F. Funk, design safety engineer; J. D. McEachern, chief systems specialist; and O. N. Shivers, assistant project engineer.

Conference Visitors To Tour FW Plant

A tour of the Convair FW plant has been arranged for tomorrow (March 20) for the benefit of visitors attending an aviation conference in Dallas sponsored by the American Society of Mechanical Engineers and the American Rocket Society.

More than a dozen FW men have important roles in the conference.

SAC and ARDC Will Join In New B-58 Test Plan

(Continued from Page 1) maximum value out of every dollar spent on B-58s."

The 6592nd Test Squadron will conduct all Air Force tests except the Phase IV program, which now is under way at Edwards AFB, California. Convair people will support the Carswell-based program with technical advice and assistance as needed.

Selection of Carswell as test pool base places the entire program just across the runway from Convair Fort Worth. All test aircraft will operate from there.

General Anderson said the new test concept may cut as much as 12 months off the time formerly needed to take a new airplane through Air Force test and training programs.

Formerly, a new weapon system was designed, built and tested by the contractor, with ARDC super-

vision, then turned over to ARDC for Air Force testing and acceptance. Only then was it given to an Air Force unit for operational employment.

Under the new method, SAC personnel will participate in the test program and will gain valuable experience toward formation of B-58 training and operational units.

Convair Fort Worth already trains Air Force maintenance personnel that will be assigned to the test program. Scores of enlisted men and officers are getting—or have completed—classroom instruction arranged by the customer service department.

The training is conducted at the Fort Worth plant, where trainees observe all equipment as it is tested, installed, calibrated and operated, in addition to sitting in on extensive classroom briefings.

Phase II Tests For B-58 Ended at FW

(Continued from Page 1)

60 consisted of only four flights. Fulton also was a crewman on the YB-60 tests.

The Phase II crew now will draw up a comprehensive report on the B-58, then will return to Edwards AFB Flight Test Center in California, where AF Phase IV tests are under way.

The Phase IV tests will furnish information to be published in operating instructions for the delta-wing bomber.

Major Fulton, who was assigned to the Flight Test Center in 1950, has served there continually, except for a one-year tour of duty in Korea.

Thousand Volunteers Sought For CRA Area Spring Clean-up

CRA will ask for 1,000 volunteers next month to take part in a huge half-day "Spring Cleaning" operation at Convair Recreation Area.

The effort will be two-fold: to clean out debris deposited in low areas during floods last year, and generally to get the area ready for increasingly heavy use this spring and summer.

The cleanup will begin at 7:30 a.m. April 12 and will end with a barbecue dinner for the volunteers at 1 p.m.

I. B. Hale will coordinate the cleanup effort. He said each department will be asked to furnish a number of men. Volunteers will be asked to bring hoes, rakes, shovels, wheelbarrows, pickup trucks and trailers.

"We hope to have 1,000 men lined from one end of the area to the other," Hale said. "We then will move across the entire 80 acres, cleaning as we go."

C. J. Hall, CRA manager, said last year's floods deposited much debris along the river banks. CRA crews have removed part of this, but much driftwood still remains.

U.S. Bond Buying at FW Boosted To Rate of \$650,000 a Month

Convair Fort Worth employees were "salting it away" to the tune of \$650,000 a month at close of the division's 1958 U.S. Savings Bond drive this month.

An incomplete report showed that 1,332 new bond buyers signed up during the campaign. They joined 12,780 other employees who already "save the easy way."

Average purchase is \$11.48 per week. Participation jumped from a pre-drive 59 per cent to a post-drive 65 per cent. At the same period last year, participation was 64 per cent.

T. G. Croft, chief of employee

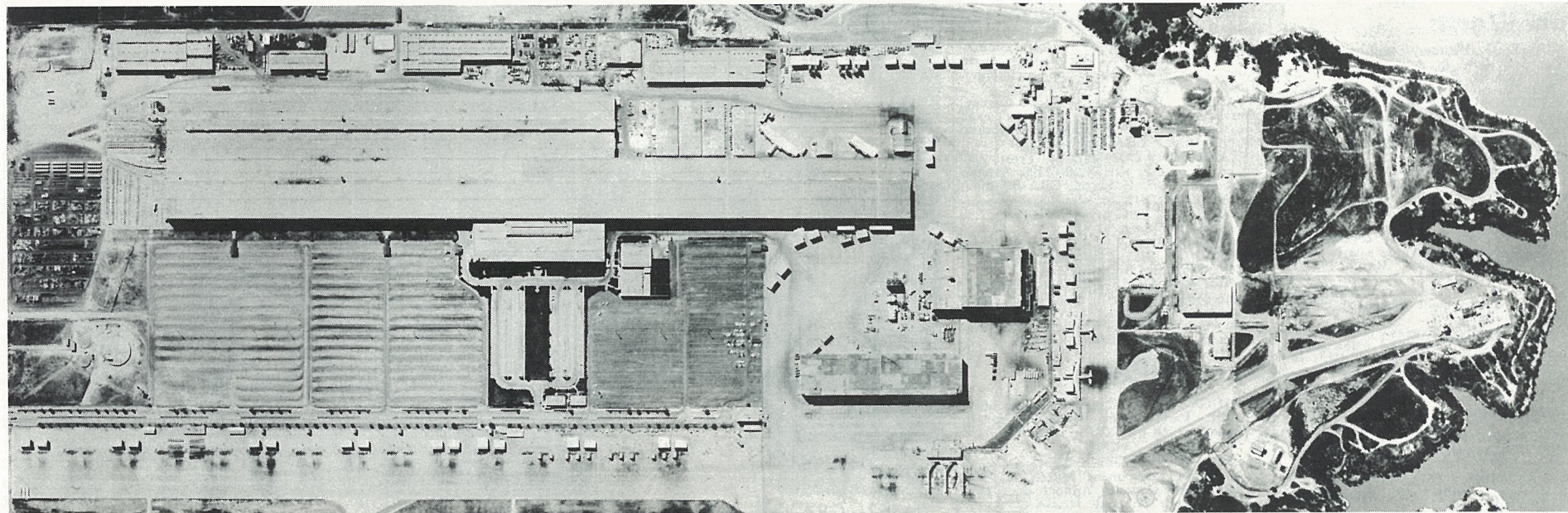
services, said the report is not complete since many people absent or on vacation during the drive have not returned their cards. He said the final tabulation probably will show an increase in participation over last year.

At end of the drive in 1957, participation was 69 per cent, with employees saving an average of \$10.83 per week.

Departments with over 80 per cent participation are 5, 8, 10, 15, 16, 28, 30, 34, 35, 63, and 81. Dept. 63, with two employees, was 100 per cent. Dept. 8 signed up 17 new buyers for 93 per cent.



VISITORS—Aerial photograph students visit FW plant for close-up at buildings they had previously studied from above.



CASE STUDY—Photo intelligence is part of extracting information from aerial photographs. Men of AF's 3750th Technical Training Wing at Sheppard AFB have been using aials of Convair FW in studies and recently visited plant to see how right—or how wrong—they had been.



Published every other Wednesday by Convair, a Division of General Dynamics Corporation, for the benefit of Convair people everywhere.

Convairiety

Vol. 11, No. 8

Wednesday, April 16, 1958

Fort Worth and
Daingerfield

EDITION

Fort Worth news office:
ext. 8245; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



THE LINE—Conversion of C-54s for Air Force at Convair Fort Worth continues with all ships "on the line." Progress is reported "outstanding."

Pilot Ends 'Two Years' At Controls of B-36s

Lt. Col. Clifford Schoeffler of Carswell AFB is the only Air Force pilot to hold Convair's 5,000-hour award for flights aboard the B-36.

He reached the mark early this year during an uneventful four-hour jaunt—ferrying airplane No. 51-5720 to a New Mexico airstrip for storage.

Two other men, Maj. Roy W. Smith and Capt. N. C. Tyson, reached the 5,000 hour mark in 1956, but both were flight engineers. Schoeffler is the first pilot to reach the milestone.

August C. Esenwein, Convair Fort Worth manager, recognized the achievement this month. He presented Schoeffler with a globe and atlas as a memento of his travels in the huge global bomber.

Based on a six-day week, eight-hour day, Schoeffler spent more than two years at controls of the ten-engine airplane.

Schoeffler entered the service in May, 1942. He served with the Eighth AF during World War II as pilot of Convair-built B-24 Liberator bombers.

He was assigned to Carswell AFB in 1948 and made familiarization flights in the first B-36 delivered. In 1949, his crew was rated a lead crew in Strategic Air Command.

He participated in a mass B-36 flight to Eniwetok and return to Hawaii in June, 1950. The flight lasted 38 hours. He also competed in SAC bombing and navigation competitions for four years.

He recently was awarded the fourth oak leaf cluster to the air medal for averting the crash of a B-36 on a night flight in August, 1956.

G. S. Green, manager of customer service who also played a vital role in early flights of the B-36, was present to congratulate Schoeffler.



STRIPPED—As ships come in, they are completely stripped. Convair will convert four C-54s to air-sea rescue planes.

C-54 Conversions, F-102 IRAN Work Beating Schedule

First of five C-54 type aircraft in modernization at Convair Fort Worth is in test flight status this week, and the other ships are in "ahead of schedule" stages of conversion.

Four of the planes are being converted to air-sea rescue ships. The other—first off the line—got a complete IRAN inspection and rehabilitation but remains a cargo-type airplane.

The cargo ship rolled off the modernization line early this month, days ahead of schedule. It now enters flight status for tests by both company and Air Force pilots.

E. E. Finch, modernization manager, said also that F-102 modernization progress is excellent. Delivery schedule calls for an average of about six airplanes a month.

"We are meeting or beating that," Finch said. "Our in-plant manufacturing time has been cut considerably and we are moving ships 'out the door' ahead of schedule."

The Fort Worth modernization area was expanded early this year to take care of increased F-102 IRAN (inspect and repair as necessary) and test-to-tact work. Fourteen of the San Diego-built planes can now be handled on the Fort Worth modernization line.

The IRAN work brings planes which have been in Air Force service up to operational capacity. (Continued on Page 6)

'Flying' Reactor At Oak Ridge For New Tests

The world's first airborne nuclear reactor, which made 47 flights at Fort Worth aboard a modified B-36, has been transferred to Oak Ridge, Tenn.

Designed and built for the Air Force by Convair FW, the reactor will be suspended from four 300-foot towers for further atomic radiation tests. Results will be used in design of compartments to protect crews of nuclear-powered aircraft of the future.

Equipment for the Oak Ridge experiments—including the reactor—was moved to Tennessee under guard in an escorted convoy. It was the first time a fully-assembled reactor had been shipped across country by truck.

Dr. C. F. Cook, supervisor of Convair FW experimental shielding group, said the Oak Ridge tests are an extension of the airborne reactor shielding program conducted with the aid of the NB-36H during 1957. Measurements will be made of air-scattering radiation during the Oak Ridge research.

B. J. Workman, FW group engineer, is team captain of the Convair crew at Oak Ridge. Other Convair personnel were drawn from all sections of the (Continued on Page 6)

44 CONVAIR SONS SEEK COLLEGE AID

Personal interviews of 44 applicants for Convair Sons scholarships at Convair Fort Worth are now under way, and the two winners are due to be announced early next month.

J. B. Ellis, industrial relations engineering administrator, said he was "well pleased" with the turnout this year. Some 55 applications were submitted last year for four scholarships.

"The applications now are being screened," Ellis said. "It is a particularly tough job because of the high caliber of those who applied."

The scholarships pay all tuition and \$250 a year to help sons or stepsons of employees attend college in pursuit of a career in engineering or an allied science.

Eleven sons now are attending schools on such scholarships. A committee decision on the two new grants is expected in early May.

Student Competition Backed by Texas IAS

The sixth annual student competition sponsored by Texas Section, Institute of the Aeronautical Sciences, will be held at the Adolphus Hotel in Dallas April 24-26.

Speakers will include E. M. Ryan of the Bureau of Aeronautics, Washington, D. C., and Gen. J. B. Montgomery, USAF (ret.), now of General Electric Company. Convair Fort Worth will be included on a tour of local aircraft firms April 26.



READY—Convair F-102s on flight line await delivery after modernization at Convair Fort Worth. Division modernization program is preparing planes for Air Force "on schedule."

Vast Roof Area (63 Acres, in Fact!) To Be Restored Soon at FW Plant

The mile-long main assembly plant and 13 other buildings at Convair Fort Worth will get new roofs after bids on the job are taken this month by plant engineering.

The project is to eliminate leaks which now keep a crew busy at roof repair jobs.

More than 2,700,000 square feet will be covered in the huge project. The area to be re-roofed is equal to about 63 acres. The job is expected to take about six months to complete.

An estimated 21,000 rolls of felt, and 2,100 tons of tar will be required.

Scott Adams, plant design group engineer, is responsible for the task. Shep Lampkin, field construction engineer, will keep an eye on progress of the job.

Buildings to get new roofs include also the parts plant and warehouses. The development hangar and experimental building were done about two years ago and will not be included in the new job.

The new roof will be the first on the main plant buildings since construction over 15 years ago. Bids will be taken this month, with work under way as soon as possible after contracts are let.

Lampkin explained the present roof "is so old that incidence of leaks has increased, which makes isolated repair jobs expensive."

Pea gravel which covers the present roof will be scraped off, three plies of felt and tar applied, then another layer of pea gravel spread.

The contractor selected pro-

bably will begin the job immediately to avoid extremely high room temperatures this summer.

Another project in planning stages by plant engineering is repaving on several parking lots, including nuclear area parking, the administration lot, and lots one and two.

Paving is due to begin within 30-45 days and will require about five months.

ENGINEERS TO HEAR PAPER ON HUSTLER

A. Kuzmick, fluid dynamic equipment and controls group engineer at Convair Fort Worth, will present a paper, "Environmental Testing of the B-58," at a national meeting of the Institute of Environmental Engineers in New York City April 17.

Merit Award Earned by FW

Convair Fort Worth now holds the National Safety Council's Award of Merit—the council's second highest national award—for the division's safety performance in 1957.

F. R. Temple, chief safety engineer, said the division missed top recognition—the Award of Honor—by only four percentage points. The division previously earned the Award of Honor on four occasions.

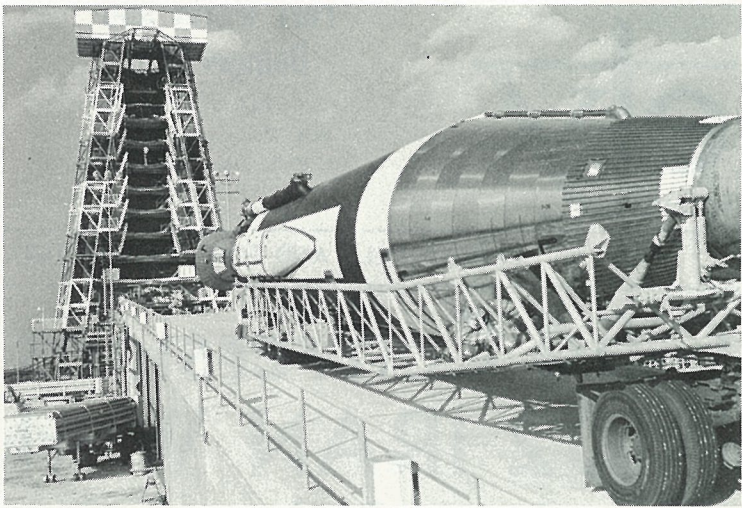
Based on NSC's national par, the division showed a 1957 improvement of 46 per cent in frequency, 86 per cent in severity.

The plant's rates were .85 injuries per million manhours, with an average of 31 days lost time. NSC par was 1.57 for frequency and 218 days for severity.

To qualify for the Award of Honor, a company must show improvements of 50 per cent on frequency and 30 per cent on severity. Thus, Convair Fort Worth missed the top award by the four percentage points on frequency.

"The safety competition is a gauge of a company's improvement in performance," Temple said. "This year's award gives us a good grade, but as long as there is a higher award, tells us there still is room for improvement."

"We simply had two injuries too many to qualify for the nation's highest award in 1957. Any injury at all, however, is too many!"



TREK OVER—Atlas missile reaches Cape Canaveral after long trip on trailer, California to Florida. Here it is backed toward launching platform.

12-Story Service Towers 'Mother' Atlas Missiles Before Launching

Of all the missile towers that line the seaward rim of Cape Canaveral, Florida, for several miles the largest are those that serve the Atlas missile.

Larger than most oil derricks, they are 12-stories high and with them crews conduct much of the pre-firing checking and servicing. Each has electrical and pneumatic air systems for machine and automatic tools, a demineralized water system for washing down the missile, sliding water-proof curtains for protection from weather, a complete communications system to the blockhouse with two-way speakers at each

station, two types of fire protection systems, an emergency escape cable from the upper levels and a complete lighting system for night work.

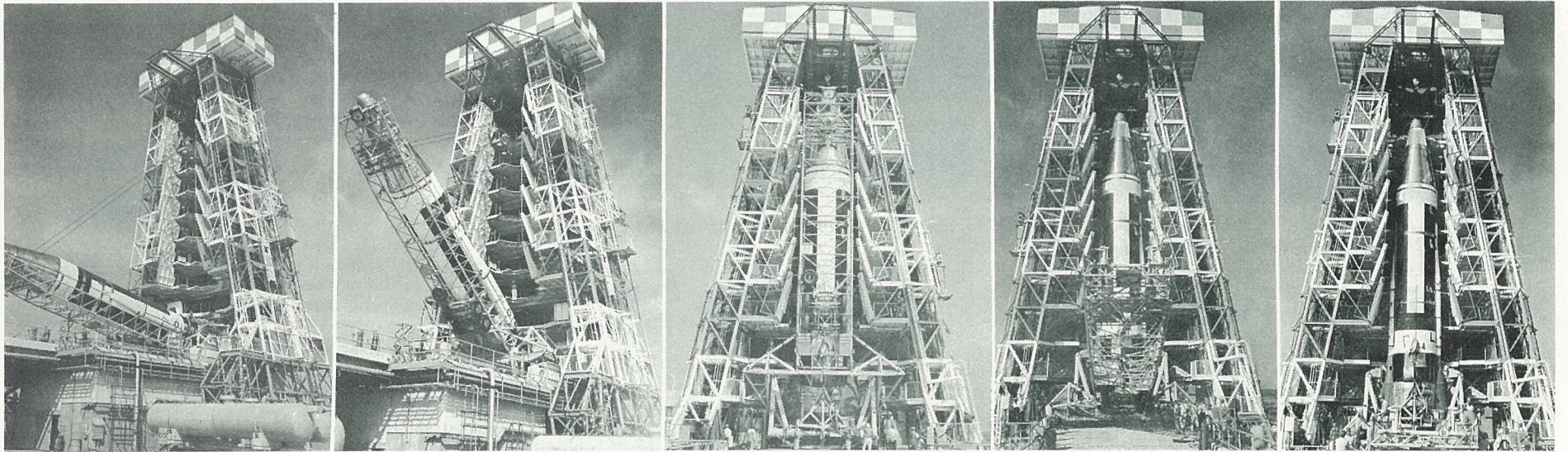
The towers were designed by Convair Astronautics Division and are essentially the same as those at Sycamore and Edwards Rocket Base, except that the Florida towers are on railroad tracks and can be rolled away (about 500 feet) prior to launchings.

Seven retractable platforms ring the missile at appropriate intervals to permit work on any section desired. Two elevators

capable of holding 16 men each take workers and equipment to various stations.

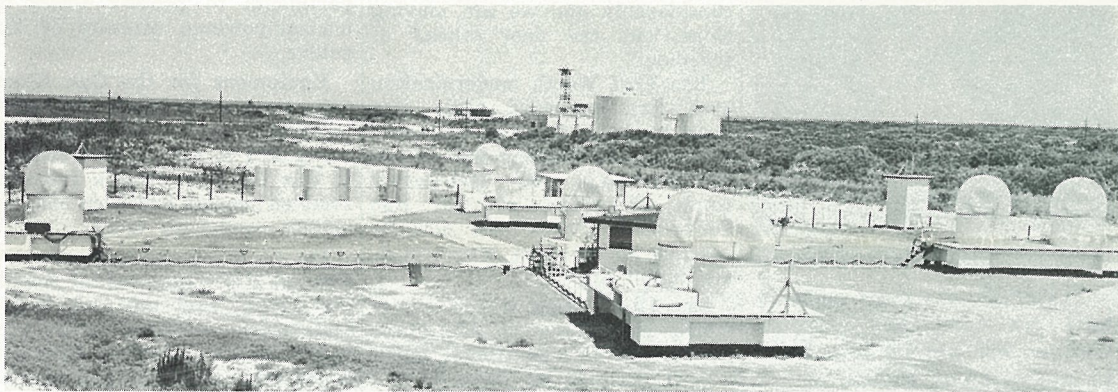
Because the firing range is within the hurricane belt, the towers have been built to withstand winds up to 120 miles an hour.

Soon after arriving from San Diego via trailer, the Atlas missile is "swallowed" by its protecting service tower. The tower itself serves as a giant crane to pull the missile, trailer and all, into a vertical position on the launching pad. The missile then is secured and the trailer lowered to the ground for the trip back to San Diego for another Atlas.



Same trailer which brought Atlas across U. S. helps bring missile to upright position in tower. Note cables attached to trailer from top of service tower,

pulling Atlas into place. After missile is in position, trailer is lowered and wheeled away. Prior to firing, service tower is rolled away leaving Atlas alone on pad.



AZUSA AT PATRICK—Eight ground antennas, protected by pressurized plastic radomes, placed in form of cross, form ground portion of Azusa tracking system developed by Convair. In background is missile tower and blockhouse.

After Years of Secrecy, Lid on Azusa Removed

A Convair project that dates back more than a decade has given the power to "radio home" flight positions to all ballistic missiles, including the Convair Atlas, fired from Cape Canaveral, Fla., site of the Air Force's Missile Test Center.

Called "Azusa," it was revealed officially for the first time last month.

Azusa couples a ground transmitting station with a small receiver-transmitter (called a transponder) within the missile. Microwave signals passing between the two produce exact plots of position and velocity of the flying missile.

This information, fed into an IBM 704 computer and monitored through a plotting board, gives continuous predictions as to where the missile would land, if power were shut off.

These units (Azusa, computer and plotter) make up what is known as an "impact predictor system." It is the chief tool of the range safety officer at AFMTC who must see that fast-

flying missiles do not stray from assigned flight corridors. Should they wander, they are destroyed rather than risk damage to life and property in areas adjacent to test ranges.

Azusa is a by-product of the Atlas intercontinental ballistic missile development program. As such, it dates back to 1946 and the Convair MX-774 project (Convairity, Dec. 11, 1957). As far back as 1944 Convair engineers had begun to think along these lines during a "Radio Relay Robot" project.

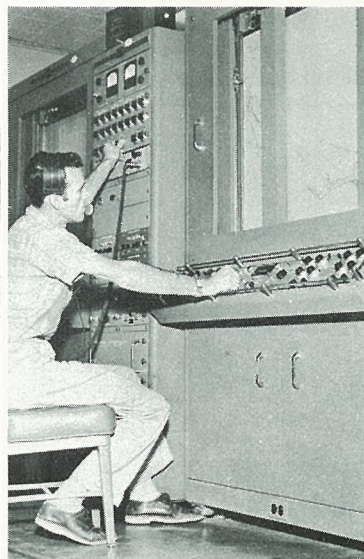
Lack of funds plagued the Azusa program during its early stages and Convair often supplied company funds for its continued development when contracts ran out.

Electronics engineers like Jim Crooks, Bob Weaver, Sam Weiss, Al Roth, Dick Smith and others contributed much to the program, working alone or with others, as finances dictated.

Experimental equipment was fashioned in 1947 and in early 1948 testing began.

Late in 1952 the Air Force asked Convair to set up its Azusa system on a remote portion of the AFMTC in Florida. In 1953 about 35 Convair employees were assigned there. In 1954 the Azusa system had begun tracking missiles and aircraft.

Convair men continued to operate and improve the equipment until April of last year when it was turned over to the Air Force. Only one Convair electronics engineer, William Collins, remains

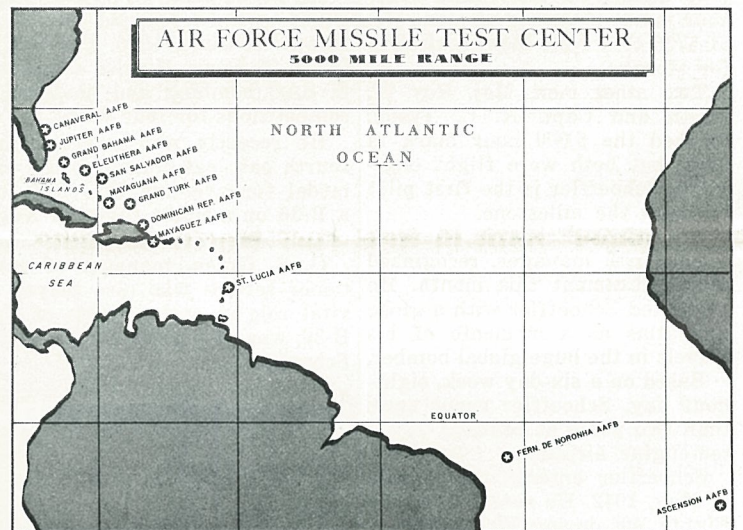


TRACKING — Lines marking missile flight and point of impact if flight were terminated appear on Azusa plotting board. Operator works control panel, below. This is component of "impact predictor system."

assigned to the Azusa ground station in Florida. He is a combination consultant, repairman and instructor.

In addition, six Convair field service engineers are on hand working under George Rugge. They repair, service and assist with transponders supplied contractors for installation in missiles. Their "customers" include missile manufacturers working for all branches of the service.

Two years ago the Air Force asked Convair to design and build a later version of the Azusa. That system, the Azusa Mark II, is now being fabricated by Convair Astronautics. It will be installed next year.



Convair Goes Shopping at FW Supermarkets For 'Test Equipment' in Hustler Program

Fort Worth supermarkets don't know it, but they too are included among the "vendors" for Convair's supersonic B-58 Hustler.

An early test flight called for a "temperature reference ice vat." No such thing was handy at the moment. But a hurried trip to a nearby supermarket produced a "plain old thermos bottle that worked real fine," according to W. T. Allen, group engineer.

On another flight, engineers wanted to measure yaw with an old-fashioned yaw string at-

tached outside the plane.

"We couldn't find any string tough enough to take the beating" said Allen. Solution . . . another trip to a supermarket. Purchase . . . a lawn-mower cord. Probably the only supersonic lawn mower cord in the world . . .

And when engineers wanted to check the B-58's deck angle in flight, they also found the answer in the market . . . a carpenter's level.

More accurate devices have been designed since, but the common items served the purpose at the time.



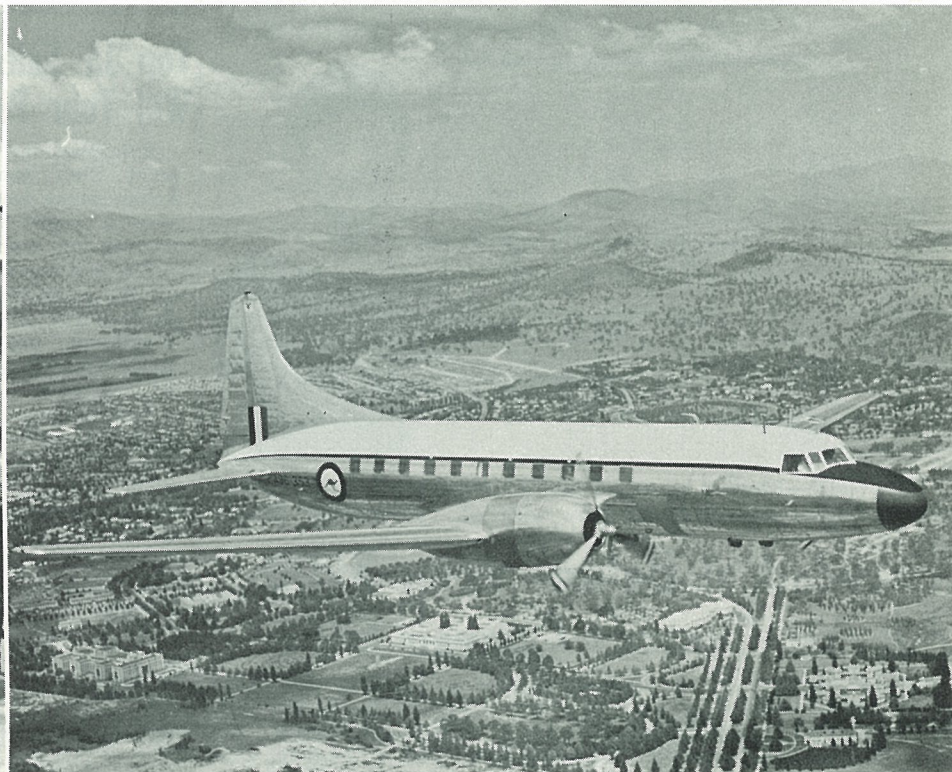
"It didn't work on the kids, but I started this child psychology stuff on the boss . . . you'd be surprised."

Jack Benny is responsible for the code name "Azusa" which for years hid the true identity of "Radio Course Directing System."

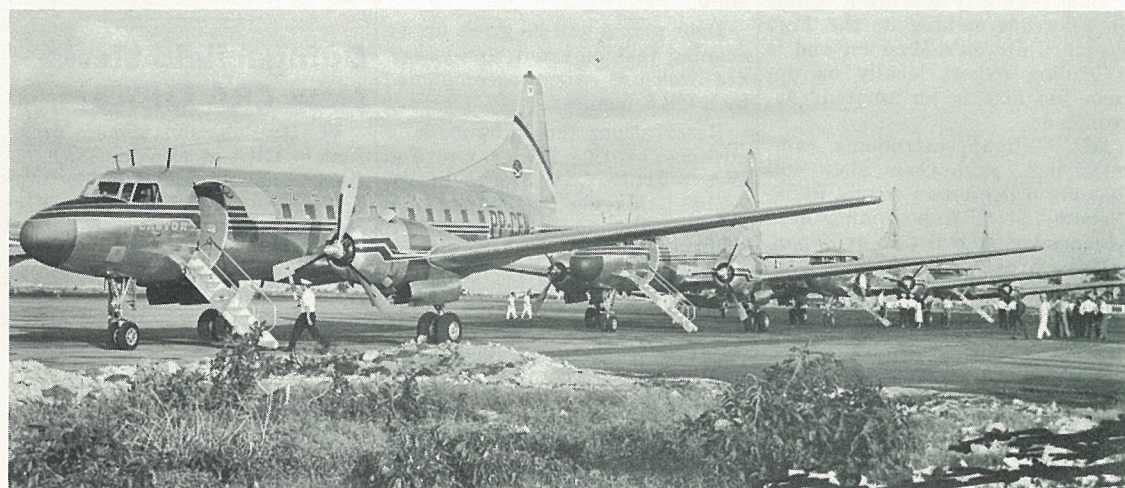
During an engineering conference someone, for some obscure reason, repeated the "Anaheim, Azusa, Cucamonga" rigamarole that has become a Benny classic. Another equally unidentified conferee pounced on Azusa as a good code name, and so it has been ever since.



440 FOR QUEEN MOTHER—When Queen Mother toured Australia recently it was in a Royal Australian Air Force Metropolitan 440. She is shown here



departing from Melbourne (left) and flying over city (right). RAAF operates two 440s as VIP transports.



440 FLEET—Lined up at passenger terminal in Rio de Janeiro are these four 440 Metropolitans of Cruzeiro do Sul. Line operates a total of 18 Convair airplanes, including both 240s and 340s.

'Sandpaper' Bath in New Fort Worth Machine Does Better 'De-Burr' Job Than by Hand

Spar caps for Convair's supersonic B-58 Hustler bomber are literally "bathed in a tub of sandpaper" to clean them of burrs left after machine operations.

The parts are submerged in aluminum oxide — an abrasive substance—and vibrated at 1,425 strokes per minute. Each stroke is only three-eighths inch long. The action removes all metal burrs.

H. M. Ruby, manufacturing research engineer who helped develop the machine, estimates it saves some 800 per cent of time required by the old method—filling the burrs by hand.

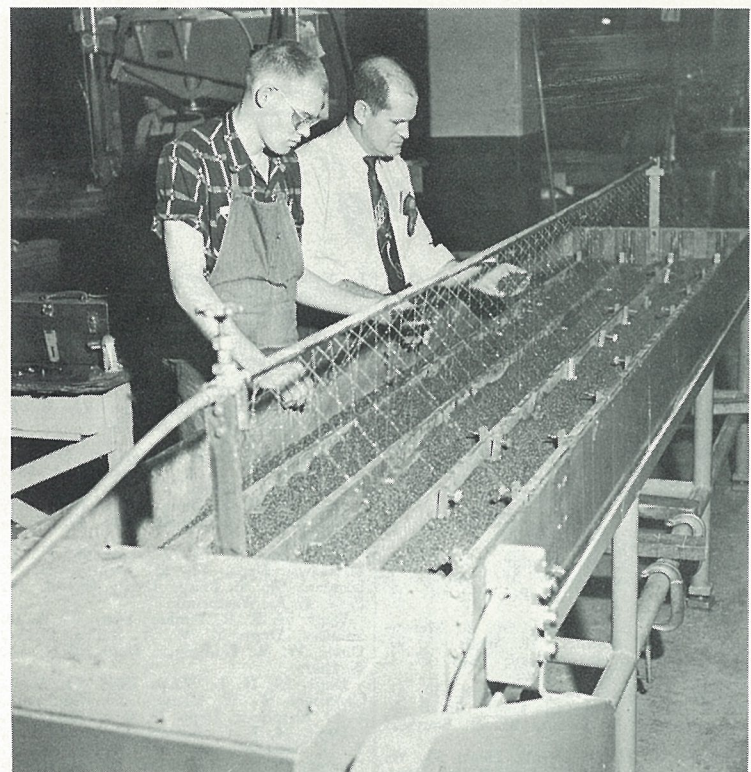
"The machine does in one day what it formerly took three men three days to do," he said. "And the machines gives a much better

finish."

Ruby said industry often uses aluminum oxide in a barrel to clean and deburr small parts with a tumbling action. The new machine is believed to be the first to handle parts so large.

Aluminum oxide is a gritty, abrasive material. Detergent is added to the tank each three hours and sprinklers continuously wash the oxide. Ruby said the oxide is like a grinding wheel. When dirty, it becomes smooth and has little cutting action.

C. D. Lance, Larry Baumhardt and W. H. Drebing of manufacturing research and development each helped on the new machine. The men now are at work on additional applications of the process.



SOAP AND SANDPAPER—D. R. Gauntt of Dept. 30, left, and H. M. Ruby, Convair Fort Worth manufacturing research engineer, inspect aluminum oxide in new machine which "cleans" B-58 parts. Abrasives, violently agitated by machine, remove burrs and leave parts clean and smooth.

Astro Now Running Own ES, CIP Office

Convair Astronautics this month completed arrangements for the transfer of its cost reduction activities from the administrative control of the San Diego Division program.

Since Astro was formed the programs have been separate, although administered through a single office.

M. M. Mrvichin, Astro's chief of systems and procedures, said the standard cost reduction policies used at all other Convair divisions will be followed.

At the new site the cost reduction office is located on the second floor of Astro Bldg 1. Telephone extension there is 1178. To serve employees remaining at Plant 1, analysts are working out of Bldg. 33, ext. 2979.

Travis Maloy Named Chief Test Conductor

Travis Maloy has replaced K. W. Jeremiah as chief test conductor for Convair Astronautics' operations at the Air Force Missile Test Center in Florida. Jeremiah is now Convair's base manager at Edwards Rocket Base.

Maloy, a graduate of Alabama Poly Institute, joined Vultee Aircraft in 1938 as a junior draftsman and in 1945 became a flight test engineer. He transferred to Convair SD in 1947 and in 1948 was named chief flight test engineer. He has been with Astronautics since 1957 as an assistant flight test engineer.

Interplanetary Talk Delayed to April 18

A talk by Krafft Ehricke of Astronautics on "Interplanetary Reconnaissance," originally scheduled for April 11 and cancelled when Ehricke was suddenly called out of town, has been re-set for April 18 at the San Diego State College laboratory school auditorium. The gathering is at 7 p.m. and is sponsored by the Arnold Society, honorary AFROTC organization.

Record of 13 Deliveries in a Day For Interceptors Equaled at SD

Clear skies April 8, the first in over two weeks, helped Convair San Diego equal an all-time mark for the number of interceptors delivered in a single day.

Thirteen that day (nine F-102As, two TF-102s and two F-106As) roared off Lindbergh Field for their maiden flights to Convair's production flight test center at Palmdale. Five others left the following day.

Only once before had Convair field operations crews sent so many planes away in a single day. The previous high mark was also set following an extended period of inclement weather. (Initial flights are made by the interceptors only when weather along the entire 150-mile route is clear.)

Five production flight test

pilots from San Diego helped augment Palmdale's regular flight crews for the day. It was a busy day, indeed, for two, Flight Captains D. M. Dunafon and W. D. Ettridge.

Dunafon and Ettridge cleared San Diego among the first departures, hopped aboard a transport at Palmdale for the trip back, then took two more interceptors away, returning late that evening via transport.

Each logged over 600 miles of flying.

Ironically, each logged about an hour of flying time in interceptors and two hours aboard the transports. (Deliveries normally take about 30 minutes, about half of the time to arrive at the destination and the other half conducting maiden shake-down operations.)

Pilots Gather at Palmdale For Briefings on Delta Aircraft

Convair Palmdale pilots will host the annual Test Pilots' Subcommittee meeting tomorrow and Friday (April 17-18).

In attendance will be pilots from Fort Worth, San Diego, Edwards, Holloman and Palmdale who are members of the committee, a branch of Convair Flight Test Council. Rex Warden, Palmdale chief pilot, and R. E. Myrann, assistant chief pilot, are in charge of arrangements.

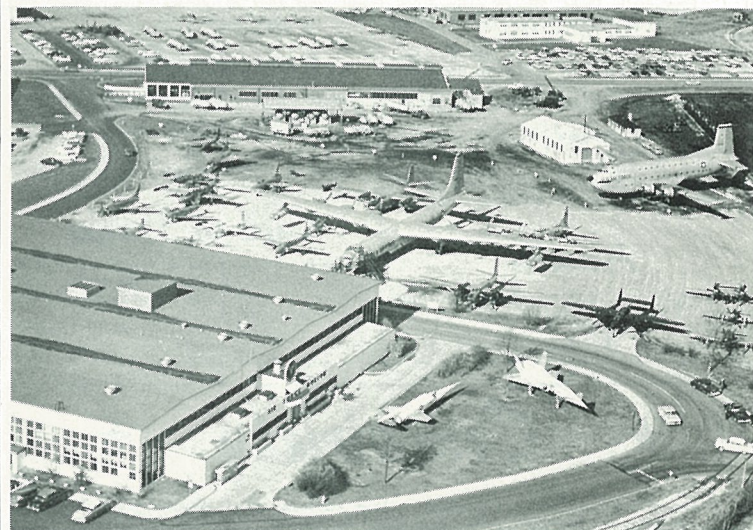
Following a welcome by facility manager W. J. Martin, the opening day agenda will include briefing on F-102/F-106 production flight operations by Warden, B-58 review by B. A. Erickson, manager of flight, Fort Worth; F-106-A/B review by R. L. Johnson, chief engineering test pilot, Edwards; and 880 review by D. P. Germeraad, chief engineering test

pilot, San Diego.

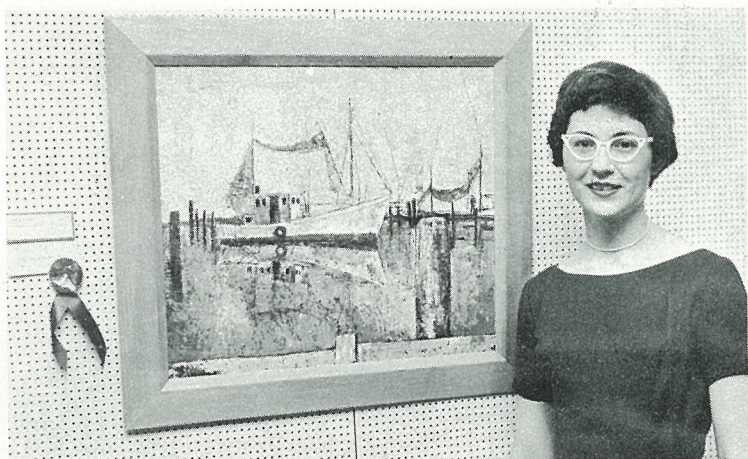
After luncheon in the company cafeteria, Warden will conduct a facility tour and a guest speaker connected with North American's X-15 project will talk on "Pilot's Future in Military Aviation." Dinner at Antelope Valley Inn, Lancaster, will conclude the first day.

On Friday, "Armament Testing Problems" will be the topic of F. E. Parker, chief engineering test pilot, Holloman, and Tom Lienhard and J. J. O'Reilly of Hughes will discuss MA-1 and electronics.

The afternoon session will open with a discussion of personal equipment headed by C. W. Alston, personal equipment technician at Edwards, and conclude with a discussion of future agenda under Erickson.



"MOTHER HEN"—B-36 looms large at USAF Museum at Wright-Patterson AFB, Dayton. A. C. Snyder, field service engineer stationed there, reported visitor told him B-36 looked "like mother hen." Museum extends invitation to all Convair folk traveling in area to visit display. Hundreds each week tour museum and inspect wide range of aircraft.



SEAWIND—Marilyn Laurence took \$300 purchase award at Fort Worth Art Center's Convair show with oil, "Seawind at Belori."

'Seawind at Belori' Wins \$300 At Art Center's Convair Show

An oil inspired by a photograph, and interpreted by Marilyn Laurence with a skillful touch, won top purchase prize of \$300 at the Fort Worth Art Center's first all-Convair show.

Mrs. Laurence, wife of Paul Laurence of engineering administration, said she has been painting for six years. It was her first award. The painting was titled "Seawind at Belori."

Another oil, "Flight," was inspired by the history of airplanes. It won the \$200 purchase award for Virginia Geis, wife of R. W. Geis.

Third place, a \$100 purchase prize, went to Charles Donovan of preliminary design. His entry was a well-executed water color, "Bridge No. 2."

The awards were presented by August C. Esenwein, division manager, at a special showing. All paintings were on display for a week to the general public—a tribute to talents of Convair employees and their families.

Special awards went to Kenneth L. Williamson for a small marble sculpture, and to Emily Guthrie Smith, wife of Tolbert Smith, who exhibited "Portrait of Anne."

Star-Telegram critic Nedra Jenkins said of the show: "With

everyone an exhibitor, the show offers a variety of subject matter . . . there's a feeling that everybody had a mighty good time with brush and color."

Hostesses were Mmes. Bill F. Helena, Van Hamersveld, J. W. Gilbert, Robert Powelson, and Miss Etta Mae Brown.

Annual CRA Shindig For Square Dancers On Tap Saturday

All employees who square dance—whether members of the activity or not—are invited to the second annual square dance party at the CRA clubhouse at 8:30 p.m. Saturday (April 19).

Ross Carney, commissioner, said the Denton Playboys will furnish music, and that refreshments will be served.

"We want everyone out," Carney said. "Even those who do not dance. This will give them an opportunity to see some real square dance action."

The annual party is held each year as a special "get-together" of all CRA square dancers. Regular sessions are held on Thursday nights. A new beginners class will start in about six weeks.

Top JA Salesmen Will Tour Plant

Salesmen in three Management Club - Sponsored Junior Achievement companies reduced surplus stocks during a sales contest this month.

The four top salesmen in each of the companies during the contest will tour Convair Fort Worth and get a look at the B-58, according to E. G. Hill, JA chairman.

Top salesmen through March were, Magnatoy, Gloria Mercer, Lanita Due, Joyce Mayfield, Douglas Gann; Ni-Glo, Judy Bassham, Bill Kannapel, Lorin Boswell, Don Campbell; and Woodvair, Gloria Selleh, Sue Noll, Oliva Baron, Don Blanton.

'Optics' on Tap For Astronomers

Norman Cole will talk on optics at a meeting of the CRA astronomy group at 7:30 p.m. today (April 16) at the CRA clubhouse.

Cole regularly teaches a course on telescope-making at the Fort Worth Children's Museum and is a leading expert locally on optics. He also is an amateur astronomer.

Art Gilligan, astronomy commissioner, said Cole also will instruct a beginners course in astronomy at CRA beginning next Wednesday (April 23) at 7 p.m.

"His presentation is down-to-earth and will give anyone a good basic knowledge in the subject," Gilligan said.

Response to the new class already is good, Gilligan said. Twenty five persons completed the last course offered by CRA. Cost is \$8 per person, which includes a text book. Registrations may be made with the CRA office.

FW Employee Wins \$3,600 on Program

A knowledge of the plays of Shakespeare won over \$3,600 worth of prizes for J. E. Ross, flight test engineer, when he appeared on the KFJZ-TV Worth Headliners program recently.

Ross walked off with, among other things, a washing machine, a television set, an electric ironer, an air conditioner, and a 14-foot boat.

Ross said the prizes had "built up" over several weeks in which there were no winners. Ross' question: "Give four Shakespeare plays which did not have the name of a character in the title."

Sponsors said the "winnings" would be shipped directly from manufacturers.

"I guess things will be coming in for the next few weeks," Ross said.

Hites Is President Of CRA Radio Club

W. H. Hites is new president of the CRA radio club, and R. H. Lundy is vice president. W. O. Malone is new secretary.

Max Schelper, commissioner, announced results of the election this week. Schelper said the new group plans a "worked all states" competition. Club members will attempt to win a national certificate by contacting each state in the union within a 24-hour period.

"Meetings by radio" is another innovation planned by club members. Meetings would occasionally be held entirely by radio, with each member reporting in and listening to proceedings.

There would be one frequency for general use, and another for novices.

Softball Games At CRA Tonight

Engineers inaugurate their season softball play with two games on tap at 7 p.m. today (April 16) under the lights at CRA area.

Using two diamonds, Model Test meets Wings, and Structures 2 engages Flight Test 1, in the first test of strength of a dozen engineering teams playing in two leagues.

Meeting Called Next Wednesday To Discuss Plans For Garden Club

People interested in formation of a CRA garden club are invited to attend a regular meeting at 7:30 p.m. next Wednesday (April 23) in the CRA clubhouse.

The meeting is called in answer to numerous requests that such

an activity be included under CRA sponsorship.

M. A. "Milt" Stewart, CRA president, said the first meeting will be a "gauge of interest" to determine if such an activity will get enough active support to justify it.

He said the club would encourage interest in gardening, offer opportunity for members to learn more about plants, flowers, and yard care, and would promote flower shows.

Speakers would be scheduled and demonstrations made on flower arrangements. As a project, Stewart said, members may want to use portions of the CRA area as "laboratories" which, at the same time, would beautify the area.

A preliminary survey indicates more than 100 people are interested. The club would include both men and women, first and second shift. Anyone interested may contact the CRA office and leave name and telephone number.

Daingerfield Elects New CRA Officers

W. H. Robinson is new president of CRA at Convair Daingerfield, and J. W. Nix is vice president. The officers were elected at the March meeting of CRA.

Secretary is Jean Conner, and H. S. Cave is treasurer.

Tickets on Sale For Fashion Show

Tickets for the CRA women's club evening session fashion show next month are now on sale. Fashions will be by Fannie Ragland's Dress Shop and shoes will be by Duane's.

The show will be held at 1:30 p.m., May 3, at the CRA clubhouse. Admission is \$1. Models will be CRA women.

Morning session of the women's club will feature Keith Rawlings, an interior decorator, at 10 a.m. next Wednesday (April 23). Door fee will be 25 cents and a nursery will be available at 25 cents per child.

Door prizes will be given at the evening fashion event, and guests are welcome when accompanied by a CRA member.

Reservations should be made in advance with Lil Graham WA 3-0113; Ann Stockman JE 6-2143; Mayola Wilkerson JE 6-8669; Donnie Woodward PE 2-1825; Pat Hedges PE 8-0914; or in-plant, Winnie Leonard, ext. 5201; CRA office, ext. 2211.

Good Place to Work!

Hill's Last Day Was Enjoyable; He Told 'Em What He Thought

R. W. Hill of Convair Fort Worth retired last month, but before he left he spent a day "telling off a few people"—in-



ALL'S WELL — August C. Esenwein, right, congratulates R. W. Hill, who retired after 15 years.

cluding August C. Esenwein, division manager!

But it was a "telling off" to warm Esenwein's heart. Hill was filled with gratitude.

"This has been a fine company to work for," Hill told Esenwein. "It is the greatest."

He explained that his 15 years at Convair Fort Worth enabled him to pay for his home, to purchase other real estate, and to salt away some U.S. Savings Bonds.

"And I don't owe anyone," he added.

Hill joined Convair in 1942 and was with the traffic department during most of his employment. He figures that he has driven a truck in and around the plant enough to have traveled five times around the world.

As he looked forward to a new life, he bade goodbye to a host of friends in the plant.

"If there is anyone here that I dislike," he said, "I have not met them."

Said Esenwein after Hill's visit: "He has a wonderful philosophy of life!"

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective March 31 are:

Dept. 4: to buyer, R. A. Rader.
Dept. 6: to structures engineer, J. L. Baird, V. W. Hall Jr., E. W. Harding, C. R. Wells; to senior structures engineer, J. D. Barnard; to design engineer, C. J. Fondon, R. E. King, R. H. Lundy Jr., A. V. Peterson, C. Postak, N. A. Stephens; to senior design engineer, C. E. Bledsoe, K. C. Hageman, R. V. Mangus; to design group engineer, J. F. Keller Jr.; to project design engineer, R. E. Purnell; to group engineer, J. I. Koger; to test engineer, W. J. Jackson; to senior test engineer, E. T. Smith; to engineering chemist, M. A. Davison; to engineering planner, A. F. Kline; to engineering drawings checker, D. G. Cunningham.

Dept. 7: to subsystems liaison man, D. L. Campbell, R. C. Gunter, R. L. McSmith, P. C. Yarnell; to development liaison man, N. B. Lee; to project subsystems liaison man, R. M. Loper Jr.

Dept. 8: to manufacturing engineer, A. H. Schubert; Dept. 10: to project budget coordinator, D. W. Scott.

Dept. 12: to first flight engineer, J. C. Lucas; to project flight engineer, G. C. Tate Jr.

Dept. 21: to production change analyst, B. C. Campbell; Dept. 28: to process engineer, B. J. Lefebvre; Dept. 64: to assistant foreman, W. E. Ferguson.

Dept. 75: to foreman, B. H. Starnes, D. A. Whitworth; to assistant foreman, A. W. Brunson, L. E. Henry, E. W. Lowe; to assistant general foreman, L. J. M. Gottlob.

Dept. 77: to foreman, K. J. Preston; to assistant foreman, W. L. Nunlee, M. S. Rettinger, T. L. Weems.

Dept. 89: to material liaison man, R. E. Emerson; Dept. 94: to assistant foreman, C. B. Teter.

Awards

The following received Employee Suggestion awards totaling \$2,025 for the period ending April 2:

Dept. 6, C. R. Fuller, E. N. Hays,

G. R. Herbert, A. I. Karydas; Dept. 20, P. M. McDaniel; Dept. 27, G. T. Teague. Dept. 28, R. T. Black, R. E. Holden, L. McKinzie; Dept. 30, E. D. Daniel, E. R. Parker; Dept. 31, J. H. Hodges, and O. L. Blankenship and P. M. Williams, former Dept. 31 employees.

Dept. 32, D. H. Butler, E. Bernard, L. W. Brock; Dept. 33, J. A. McCleskey, W. E. Johnston, C. L. Colvin; Dept. 34, D. F. Steel, W. H. Horton, L. Cordell.

Dept. 35, H. C. Brown, N. S. Farmer; Dept. 36, D. E. Burke, W. C. Hanson, J. H. Lee; Dept. 46, J. P. Wells, H. Hooper; Dept. 64, D. J. Ancy, A. R. Dobson.

Dept. 74, E. A. Miller, A. D. Lewallen; Dept. 75 former employee, J. L. Wolverton.

Dept. 81, S. T. Hammock, W. E. Wiley, W. E. Alexander, H. E. Evans, W. H. Troxell, B. A. Price, R. Pritchett; Dept. 82, L. J. Giesen; Dept. 95, R. O. Statum.

Deaths

WOLFF—William F. Wolff, 27, Dept. 22-9, died March 30. Survivors are his wife, a son and daughter; his parents, one sister and three brothers.

DEAL—Jessie F., 41, Dept. 7-4, died April 2. Survivors are his wife and son.

LOWERY—Joseph H. Sr., 65, Dept. 29, died April 6. Survivors are his wife, two sons and two daughters; two sisters and eight grandchildren.

Lost and Found

LOST—Zipper lighter bearing name and address of owner, N. P. Taylor, Decatur, Texas. Reward. Contact Mr. Taylor, ext. 7158.

FOUND—One Masonic cufflink. Contact A. H. Linenschmidt, Col. 51F, Dept. 32.

Card of Thanks

The kind expression of sympathy of Convair employees on the recent death of my mother is gratefully acknowledged and deeply appreciated.

O. G. Scott, Dept. 81 (Ret.) and family

★ Convairiety ★

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

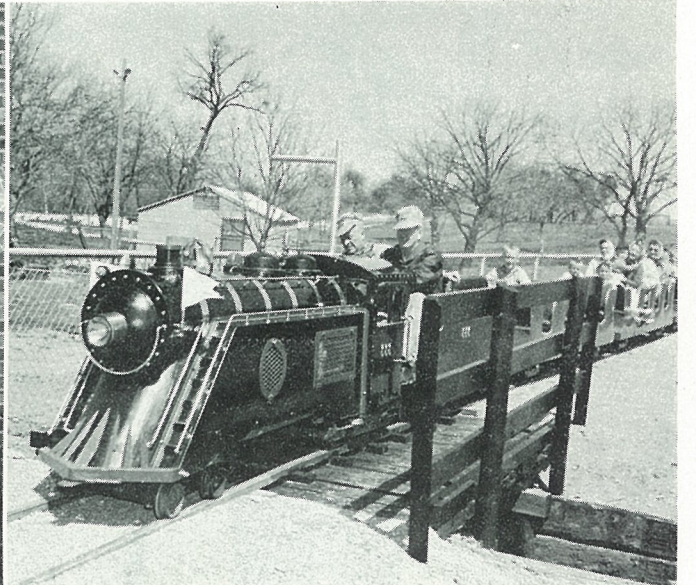
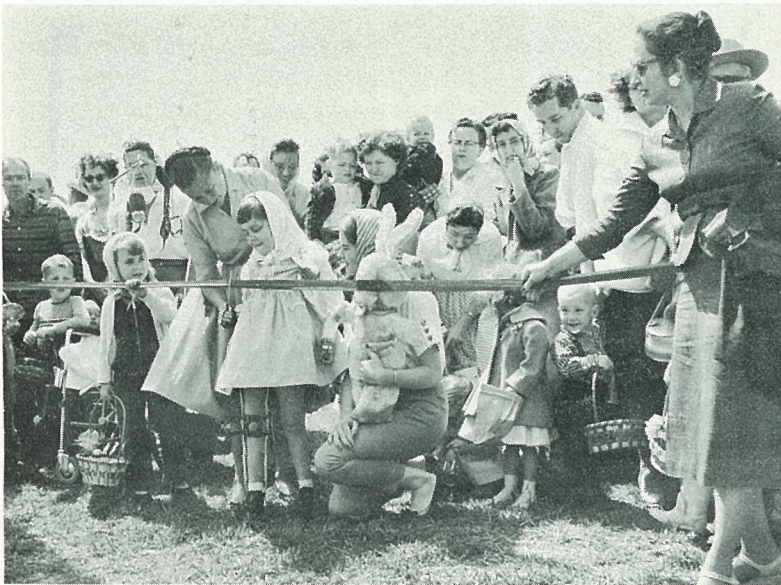
Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, news editor; Grady Faith, Helen Pemberton.

FW Editorial Offices, Col. 71-C, Ext. 8245. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.



BIG MOMENTS—Baskets ready, children wait at starting line as Judy Haun cuts ribbon. Mrs. August C. Esenwein helps with shears. Cigar-smoking Easter bunny (Henry

Growald) in center picture swaps David Carter a stuffed animal for prize egg. At right, the "CRA Express" chugs around track. Waiting lines were long after the hunt.

Easter Bunny Draws a Crowd

Sunny weather drew one of the largest crowds ever to the CRA area April 5 for the annual Easter egg hunt. Parking lots were filled and children were everywhere.

Jim Shackelford of the plant-wide recreation committee estimated that about 3,000 children turned out to search for 18,500 eggs hidden in three areas.

The children also flocked to CRA's miniature train—the "CRA Express"—for free rides. August C. Esenwein, division manager, donned an engineer's cap to drive the powerful engine most of the morning.

Six-year-old Judy Haun, crippled with polio since three, cut a ribbon to start the hunt. She is the daughter of W. C. Haun of Dept. 56.

Henry Growald, chief of engineering tests, wore a rabbit's ears to pass out prizes to finders of "lucky eggs." He was probably the nation's only cigar-smoking Easter bunny!

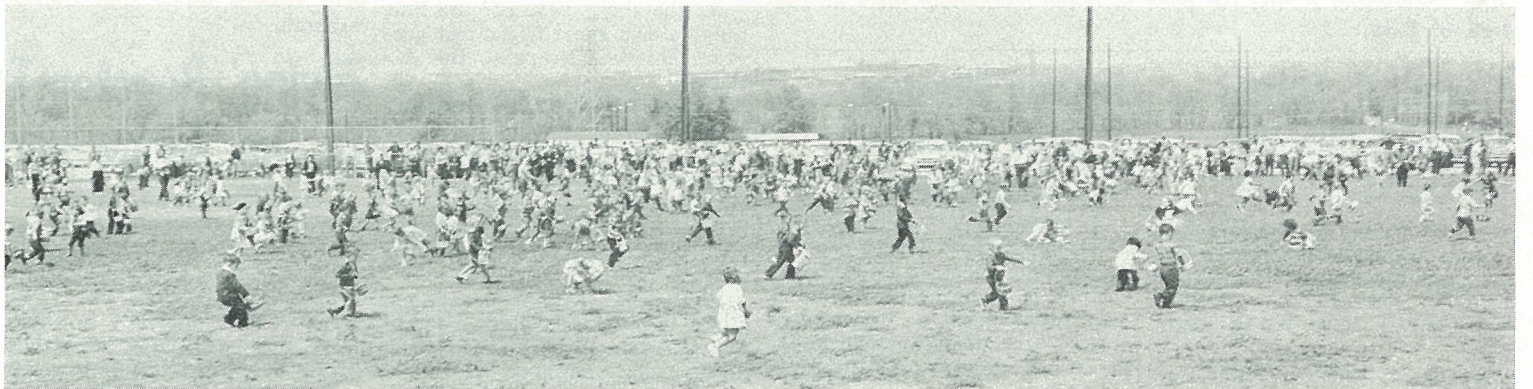
And the "missing persons bureau" did a booming business searching for "lost parents." All were found.

"It was the largest crowd we have ever had in the area at one time," said M. A. "Milt" Stewart, CRA president. "Smoothness of the operation is a tribute to some 100 volunteers who helped stage the event."

Three families were present with seven children each to compete for the largest family prize. A drawing gave the award to the family of C. M. Henderson, Dept. 81, who was present with his four girls and three boys, ages 6 to 14.

Karen Jungman, daughter of J. A. Jungman of Dept. 33, was the youngest girl present. She was one month, one day old. Youngest boy was Nathan Lewis, son of J. L. Lewis of Dept. 32. He was two and a half months old.

Prize eggs were found by David Wilson, Elaine Neal, Pamela Cush, Mark Cedel, Charles Rohmer, Pat Ledwig, David Carter, Jeane Winfield, Mike McKinney, Cheri Lynch, Eddie Champion, and Richard Parker.



THE HUNT—The race is on as hundreds of children scramble for eggs during Easter hunt at CRA area. Attendance: 3,000!

Daingerfield Event 'Crashing' Success

An "unscheduled" mid-air collision, caused by a high wind, highlighted the CRA Daingerfield model airplane contest at Mount Pleasant Airport last month.

The mishap occurred during a streamer combat demonstration by W. A. Reed and Gilbert Betts.

John T. Jeter III, 11, son of J. T. Jeter of Dept. 2, won the novice event. Reed and Reggie Talley placed first and second in the open event.

Next contest will feature radio control models.

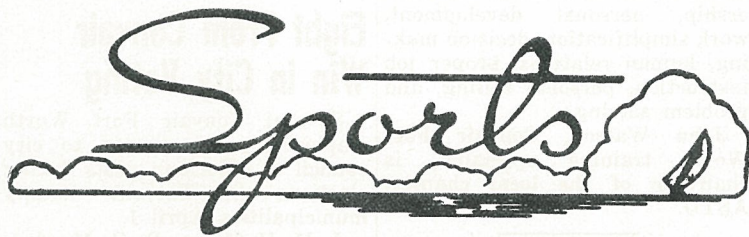
Chess Club Hosts Challenge Match

A challenge chess match between electrical and electronics design groups and weights and stress groups will be featured at a play session at CRA area at 1 p.m. Sunday.

There also will be individual play and a short business meeting. Employees who want to learn to play chess are invited to attend the play session.

Club Needs Models

Employees interested in modeling for a "shooting session" of the CRA camera club should contact O. T. Stoll or L. A. Douglas, ext. 2249 or 7165. The session will be held next month and models will be rewarded with pictures of themselves.



CRA Boaters Plan River Voyage To Upper Reaches of Benbrook

A river voyage to the upper reaches of Benbrook Lake and a picnic with a nautical touch are innovations of the CRA boat club for the season's first cruise April 26.

Reveille will sound early for members because a fishing tournament—with prizes—begins at 5 a.m.

"There will be prizes for the largest bass, largest crappie, and the aggregate pounds of catfish, bass and crappie within legal limits," said B. T. Frost, commissioner.

"And remember your fishing licenses," added G. S. Dean, commodore.

At 10 a.m., all boats participating will form at extreme north end of lake for a cruise upriver to Leonard's Dam, where all boats will nose into the bank and passengers will debark.

Then, members will hold "an old-fashioned picnic with a nautical flavor" beneath stately trees covering the remote site.

Meanwhile, back at the lake—at 2:30 p.m.—a nautical "Easter egg hunt" gets under way. Balloons will be hidden around the lake, with marked balloons worth prizes. The hunt will last two hours.

Drill team formation driving begins at 4:30 p.m. The club's first shakedown cruise ends with close of the fishing tournament at 7 p.m.

"This first cruise of the season

Sweepstake Teams Get Colonial Ducats

In addition to usual prizes, two tickets to the Colonial National Invitational Golf Tournament will be awarded teams in each handicap class of the next CRA golf sweepstakes.

The sweepstakes will be at Meadowbrook Golf Course Saturday (April 19). Entries must be made at CRA office by 4:30 p.m. Friday. The event will be a two-man team low ball tournament.

Ray Peloubet Ups 690 Pounds In Three Lifts

Ray Peloubet, 181-pounder, lifted 270 pounds over his head in the clean-and-jerk event to emerge from the annual CRA weight lifting tournament with a championship trophy.

The tournament was held at CRA area April 5. Peloubet lifted 210 pounds in each the snatch, and clean and press. His total weight in three lifts was 690 pounds.

R. E. Vick Jr. won the heavy-weight class with a total of 570 pounds in three lifts.

Jack Little repeated as physique champion, showing a mighty form in three poses. Lawrence Dee Burke was second.

Other weight champions and their classes are: Mike Brackney, 123-pound class, 225 total lift; Donnie Dodd, 132-pound class, 300 total lift; W. E. Peterson, 148-pound class, 445 total lift; N. E. Richardson, 165-pound class, 460 total lift; and Smokey Doyle, 198-pound class, 440 total lift.

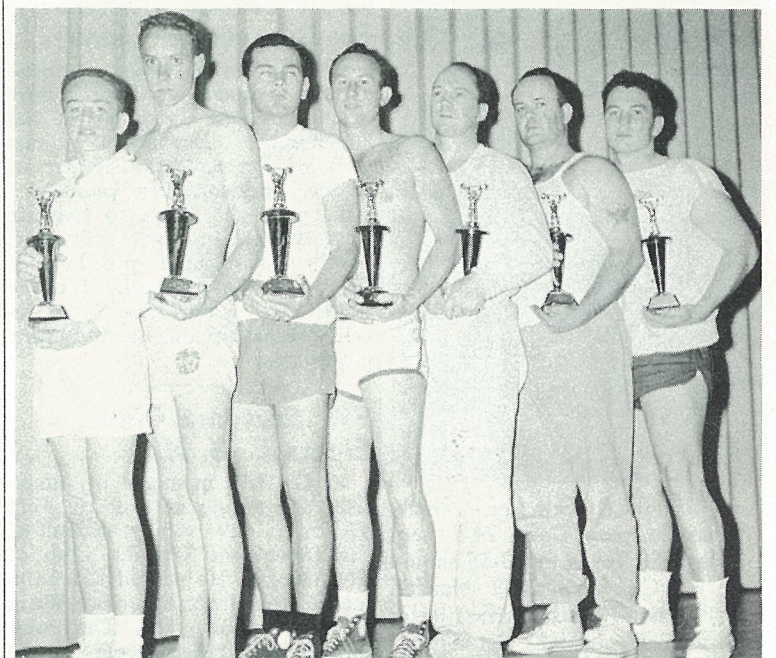
Trophies also went to second place winners, Bruce Brackney, Art Ketchems, Ronnie Hughes, Milton Lowry, Ed Wright, and Lonnie Ricker.

Each contestant made three lifts. In the snatch lift, the weight is quickly raised above the head without pause.

Baseball Game On Tap Saturday

Dept. 44 meets Dept. 74 in departmental baseball play on the CRA diamond at 8:30 a.m. Saturday (April 19) to end the first round play in the departmental baseball tournament.

Meanwhile, Roy Jarl, commissioner, said players—especially pitchers—are needed for the major CRA team. Bobby Franks is manager.



TOP LIFTERS—Winners of annual CRA weight lifting tournament are, left to right, Mike Brackney, Donnie Dodd, W. E. Peterson, N. E. Richardson, Ray Peloubet, Smokey Doyle, and R. E. Vick Jr.

Activities Calendar . . .

Fort Worth

ASTRONOMY—A. E. Gilligan, commissioner, ext. 2177. New astronomy class starts April 23; sign up, CRA office. Lecture meeting April 16, 7:30 p.m., CRA Building.

BADMINTON—H. R. Harrison, Annex 1, ext. 32. Tournament April 19-20, Ponca City, Okla.; entries until April 17, CRA office.

BASEBALL—L. L. Jarl, commissioner, ext. 4250. Game April 19, 8:30 a.m., CRA area.

BOATING—B. T. Frost, commissioner, ext. 3160. Boat cruise April 26, 5 a.m. to 7:30 p.m., Benbrook Lake.

BRIDGE—G. P. Anderson, commissioner, ext. 3226. Duplicate sessions: Fridays, 7:45 p.m.; Wednesdays, 9:30 a.m., CRA Building.

CAMERA—Miles Rogers, commissioner, ext. 2294. Black and white print contest April 23, 7:30 p.m., CRA Building.

CHESS—R. W. Wooten, commissioner, Annex 2, ext. 302. Meeting April 20, 1 p.m., CRA Building.

GOLF—Lawrence Armstrong, commissioner, ext. 8201. Sweepstakes April 19, Meadowbrook Golf Course.

MODEL AIRPLANE—E. E. Scott, commissioner, ext. 5141. "Rat Race" April 20, CRA area.

MOVIES—April 21-25, "Kill the Umpire," with William Bendix; April 28-May 2, "All the King's Men" with Broderick

Crawford. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner, ext. 2186. Operating night April 24 and May 1, 7:30 p.m.; novice code and theory class, Saturdays, 10 a.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

SOFTBALL—R. L. Evans, commissioner, ext. 5141. Games Tuesday through Friday, 7-9 p.m., CRA area.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each Thursday: beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

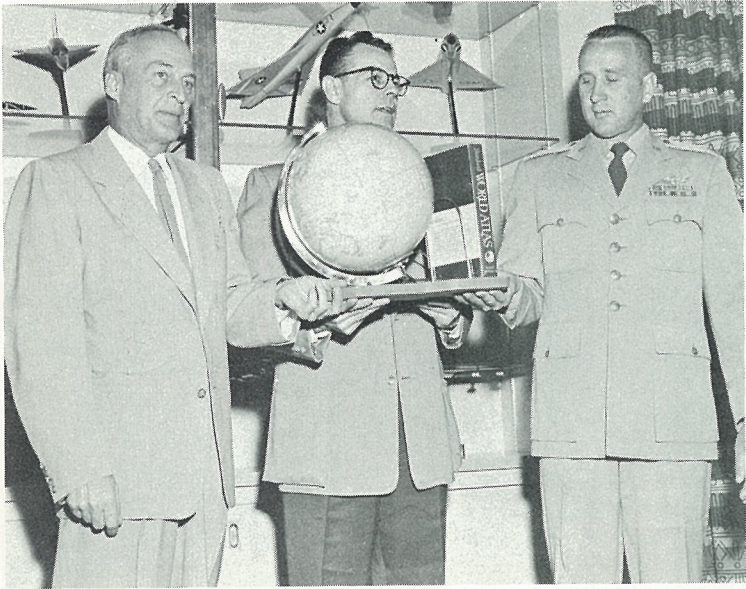
TABLE TENNIS—C. G. Barton, commissioner, ext. 2294. Play Tuesdays, 7:30 p.m., CRA Building.

VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 8131. Supervised play Thursdays, 7 p.m., Saturdays and Sundays, 3-5 p.m., CRA area; league play Mondays, 7 p.m., Southside Rec. Building.

WOMEN'S CLUB—Winnie Leonard, commissioner, ext. 5201, first shift; fashion show May 3, 1:30 to 3:30 p.m. Mary Smith, commissioner, ext. 4221, second shift; meeting April 23, 10 a.m. CRA Building.

Daingerfield

BRIDGE—J. R. Nazzal, commissioner, ext. 481. Party bridge second and fourth Thursday, 7:30 p.m. See bulletin board for location.



FIRST—August C. Esenwein, left, and G. S. Green, center, present 5,000-hour award to Lt. Col. Clifford Schoeffler of Carswell AFB. Schoeffler is first AF pilot to reach 5,000-hour mark at controls of B-36.

TECHNICAL EDITOR TEACHES RUSSIAN IN CLASS AT TCU

E. J. Boone of Convair Fort Worth not only understands Russian, but teaches it in spare time at TCU. Several of his students are Convair Fort Worth engineers.

Boone, a technical editor, said the knowledge of Russian occasionally helps him translate technical publications at the plant. He learned the language in an accelerated 14-month course at Syracuse while serving with the Air Force.

He now teaches first and second semester Russian in night courses, and plans to begin a second year course this summer. He recommends the course for engineers.

"We just are not getting enough Russian scientific material in translated form," he explained. "A knowledge of the language will help a man determine from titles or abstracts whether an article is worth translation."

Boone said the Russian alphabet is derived from the Greek. "Convairiety," looks something like this in Russian: "Kohb3-pante!"

Accountants Chapter Ranks No. 1 in U. S.

The Fort Worth chapter, National Association of Accountants, is ranked No. 1 among the NAA's 133 chapters throughout the United States which compete for the annual Stevenson Trophy.

Standings are based on points earned through chapter activities. R. W. Harwell of Convair Fort Worth is president of the local chapter. Articles by Convair Fort Worth people published this year in the NAA Bulletin were by Harwell, W. E. Guinn, Marvin Grant, and Charlie Buse.



NUMBER GAME—Pretty Phyllis Grayson, Dept. 24-7, suggests 1958 Texas tag B-58 should go on Convair's B-58 Hustler. (Phyllis' hand blots out first letter of license—which actually is EB-58.) Instead of adorning B-58, however, tag is on another bird: Thunderbird driven by J. T. (Bing) Cosby, B-58 program director.

Training Directors Sponsor Seminar On Management

A management seminar sponsored by the Fort Worth chapter, American Society of Training Directors, in cooperation with TCU, was pronounced a "tremendous success" this week by John Payne of Convair Fort Worth, program chairman.

Some 175 people from local firms attended sessions on leadership, personal development, work simplification, decision making, human relations, proper job instruction, personal selling, and problem solving.

John Watson, Convair Fort Worth training specialist, is chairman of the local chapter, ASTD.

DEPT. 44 FAR AHEAD OF COMPETITORS IN QUALITY IN MARCH

Convair Fort Worth's Dept. 44—F-102 doors and panels area—scored a whopping 60 per cent better than the target to become the division's quality leader for March.

J. Y. McClure, manager of quality control, said the department's record was far ahead of any other, and much better than the prorated 20 per cent plant-wide improvement target.

The department's quality loss from scrap and rework was less than half of one per cent of the labor expended.

R. E. Davis and W. Mapp of Dept. 44 accepted the quality plaque from A. O. Watson and E. D. Routledge of Dept. 52, winner of the February competition. The award was presented in the office of V. Dolson, factory manager.

Quality competition among production departments is expected to help the division attain a 20 per cent improvement for the year.

Loyd Turner Elected By Downtown Lions

Loyd L. Turner, assistant to the division manager at Convair Fort Worth, is new president of the 300-member Downtown Lions Club of Fort Worth. He served as vice president last year.

Turner, who came to Convair Fort Worth in 1946, only last month was elected president of the Fort Worth Public Library Board. He headed the city's recent "Wake Up and Read" library observance.

FW Sertoma Club Elects E. G. Hill

E. G. Hill, manager of industrial accounting at Convair Fort Worth, is new vice president of the Downtown Sertoma Club of Fort Worth. He served as chairman of the club's American Ways committee last year. The committee distributed some 12,000 copies of the Declaration of Independence to Tarrant County school children, and to newly-naturalized citizens.

Conversion Job Beats Schedule

(Continued from Page 1) bility of models just off the assembly line. Each plane is inspected for wear, tear, damage or fatigue. Doubtful items are replaced, and all established improvements made on the ships.

The C-54s on the modernization line get a complete reworking and extensive interior change for future demands in air-sea rescue tasks.

The interior of each ship is almost "cleaned," then rebuilt. The ships are getting bubble-type scanner stations, a door for dropping rescue equipment and supplies, an extensive network of racks for storage, crew bunks, and a complete reworking of the cabin stations and instrument panels.

As the ships come off the line, they enter a short flight test program before delivery to the Air Force.

Convair Fort Worth accomplished similar conversions on a number of C-54s in 1956. Employees gained a lot of know-how on that work, which makes the present conversions a smoother operation, with less additional engineering.

First C-54 off the line arrived at the Fort Worth plant Feb. 10 and was due out of modernization late this month—a schedule which employees beat considerably.

Eight From Convair Win in City Voting

Several Convair Fort Worth employees were elected to city council or alderman posts during elections in Tarrant County municipalities April 1.

J. M. Hoffman, R. O. Mendenhall and J. B. Pierce won seats at White Settlement, which is adjacent to the Convair Fort Worth plant. Hoffman, Dept. 15-4, joined Convair in 1952; Mendenhall, Dept. 82, in 1943; and Pierce, Dept. 76, in 1950. Others elected and hire dates at Convair are:

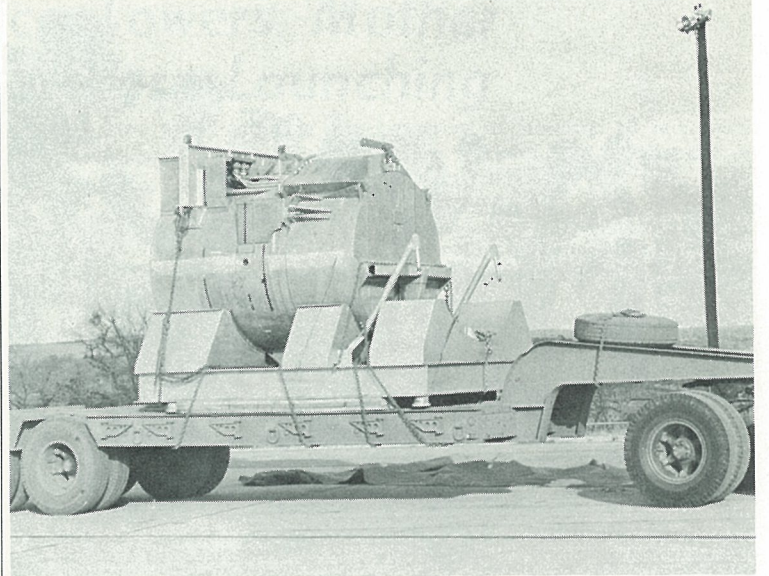
T. R. Whitley, Dept. 24-1, Forest Hill, 1950; John M. Thompson Jr., Dept. 28-4, Sansom Park, 1944; M. B. Stephenson, Dept. 15-4, Keller, 1942; Howard L. Gilbert, Dept. 28-1, Southlake, 1947; and Raymond Fisher, Dept. 12-1, Azle, 1947.

FW Men to Address Dallas Symposium

Two Convair Fort Worth men will address an atomic energy and state governments symposium in Dallas April 17-18, sponsored by Southwestern Legal Foundation and the Atomic Industrial Forum.

R. L. Hamilton, Dept. 11-8, will discuss "Proposed Recommendations of the Southwest Legal Foundation," and F. L. Paschal Jr., health physics administrator, will talk on "Experience in Corporate Control and Recording of Radiation Exposure."

A. Kalitsky, nuclear program manager, will discuss the nuclear program at Convair Fort Worth during a plant visit by the group.



"GROUNDED"—This is first photo released of airborne nuclear reactor that made 47 flights in NB-36H at Fort Worth. It is shown here aboard trailer that transported it to Oak Ridge for further research.

'Flying' Reactor Trucked From FW To Oak Ridge For New Testing

(Continued from Page 1) Convair FW nuclear program.

All associated hardware for the Oak Ridge experiments was designed and built at Fort Worth. This includes a huge boom that will hang on cables strung between the four towers.

Cook said the Oak Ridge ex-

periments will be the "most important thing done" by nuclear engineers of Convair this year. The work climaxes several years of nuclear shielding experimentation.

The FW-built reactor operates at power levels up to 1,000 kilowatts and is water-cooled.

Did-It-Himself

Ham Deserts Radio to Build Television Station in Home

Jerry Murchison of Convair Fort Worth has no television set in his living room, but he has a complete TV station in his den.

He could compete with the networks if it were not for one small problem—there are no sets in Fort Worth tuned to his channel.

Murchison is one of a little-publicized group of amateur TV operators. He long ago converted his den into a "ham shack," and now has added a television camera, transmitter and TV receiver.

At present, the set up is merely "closed-circuit" television, but Murchison hopes to go on the air soon when other amateurs convert television sets to receive his signals. When he gets a television audience he will modify his station to show 16 mm home movies.

Carl Harp of Dept. 75 (W5NVJ) and Harold Neher of Dept. 6-4 (W5HXO) now work on sets and each hopes to build his own station.

Murchison, a radio ham for about ten years (W5OSV), said he began work on his TV station because "I was looking for something new."

What does the Federal Communications Commission think of do-it-yourself TV?

"The FCC encourages any form of experimentation by an amateur," he explained. All amateur frequency bands above 420 megacycles are assigned for amateur television operations.

Murchison got the TV camera as surplus, modified an old re-

ceiver, and built other parts. "The entire station cost me considerably less than most amateurs spend on radio transmitters and receivers," he said. "Most of my stuff is either surplus or home-made."

Murchison said he plans to put up a tower and a better antenna. Sounds will be carried on a different frequency. He said any common TV set can be modified with a "converter" to pick up the picture.

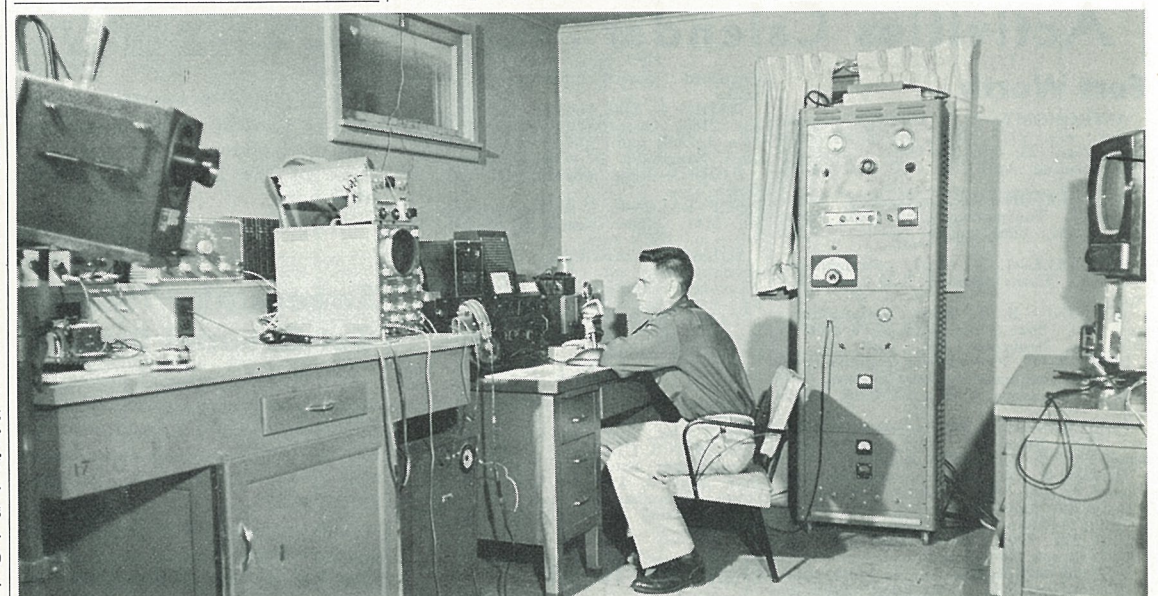
FW Club to Sponsor Management Clinic

Reservations for a one-day management development clinic conducted by Ray Monsalvatge should be made before April 15, according to John Watson, program chairman.

The program is sponsored by Convair Fort Worth Management Club and will be held at Hotel Texas April 19. The program will be in four parts, public speaking, personality development, human behavior, and memory development.

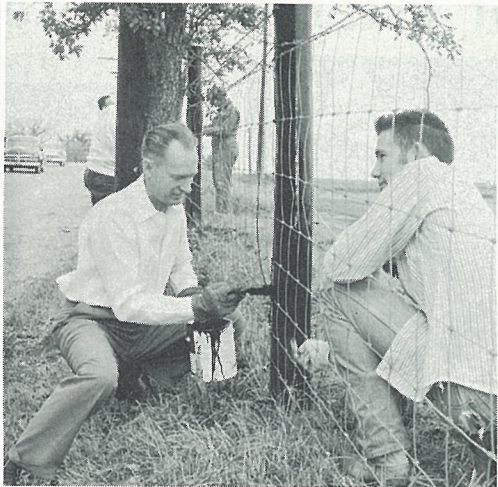
Monsalvatge is a former education director of National Management Association who now devotes his time to lectures throughout the United States.

Cost of the clinic is \$5 per person. Luncheon is \$2.25. Sessions will be in the Longhorn Room, 9 a.m. to 12:15 p.m., and 1:45 p.m. to 5 p.m.



DO-IT-YOURSELF TV—Jerry Murchison of Convair Fort Worth operates radio in his "ham shack," which also serves as TV studio. Note camera at left, television set at right.

Thousand 'Spring-Cleaners' Swarm Over CRA Area's 83 Acres



FIELD DAY—Willing hands tidied CRA Area this month. At left Mr. and Mrs. C. L. Rothacker, Dept. 4-2, plant shrubs as M. A. Burt's son, Jerry, galleries. Left center, Ed Manns and Jerry Adams, Dept. 19-3, are on fence detail. Right center,

K. C. Smullen, Dept. 8, cleans "low-water" crossing of Trinity with rake. Right, Bill Womack and V. O. Cammel, Dept. 81, paint rodeo chutes. More than 1,000 turned out for "field day" activities.



Convairiety

Vol. 11, No. 9

Wednesday, April 30, 1958

Fort Worth and
Daingerfield
EDITION

Fort Worth news office:
ext. 8245; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS

CRA Area Gets Clean-up From 'Stem to Stern'

There were "a dozen-men-to-the-acre" as 1,000 volunteers swarmed over Fort Worth's CRA area for a giant clean-up, paint-up, fix-up effort this month.

Projects for the volunteers were spread from one end of the 83-acre area to the other, and from Bryant-Irvin Road to the river. Volunteers were everywhere. They raked, chopped, mowed, painted, hauled, and spaded—and sweated!

New paint jobs went on the archery shack, dugouts and bleachers, fence posts, boat docks, ranch office, horse barn, rodeo arena, and pens.

One group even planted shrubbery and 109 climbing rose bushes along the fence.

"All projects were accomplished as planned," said I. B. Hale, project coordinator. "We got very fine cooperation and accomplished a lot of work."

"We had plenty of volunteers, and some departments came out that were not scheduled. They pitched in and helped a lot."

Hale assigned projects to volunteers by departments. The men brought their own tools, and many showed up with power mowers. One brought a tractor and a plow.

A barbecue spread at noon climaxed the half-day effort. Over 890 plates of food were served, but many volunteers did not stay to eat.

Scheduled projects were, baseball diamond and archery range, Dept. 27; junior baseball diamond, Dept. 29; front fence, Dept. 19; river banks, Depts. 22, 44, 54, 55, 56, 59, 94, 95, 96; picnic area No. 1, Dept. 6; picnic area No. 2, Depts. 3, 8, 9, 10, 11, 15, 16, 17, 18, 25, 89; ranch area, Depts. 64, 65, 81, 82; planting, garden club.

Engineers to Advise Boys' Science Club

Science-minded youths of Fort Worth may soon have access to the know-how of some of Convair Fort Worth's top electronics engineers. The engineers will make up the board of advisers for a new boys science club.

The club, tentatively scheduled to be located in the western part of the city, will be sponsored by the Convair Management Club.

An initial appropriation was granted this month by the Management Club for purchase of basic equipment, and additional grants will be made each year (Continued on Page 6)



ON DISPLAY—This scene is likely to be repeated a thousand-fold as public sees Convair's supersonic B-58 for first time on Armed Forces Day. Above are delegates to National Rifle Association who got preliminary look at Hustler during visit to plant. More pictures on page 3.

ES Pay-offs Averaging \$70 to FW Suggesters

Convair Fort Worth employees collect on one out of every five Employee Suggestions they turn in, figures released this week revealed.

J. M. Langendoen, supervisor of the suggestion section, said each of the ideas installed earns an average award of \$70, with many employees taking home much more. The division's top ten suggesters thus far in 1958 won awards ranging from \$214 to \$1,155.

The top ten are K. R. Creamer, Dept. 82, \$1,155; C. L. Colvin, Dept. 33, \$705; J. E. Lafferty, Dept. 6, \$422; Joe Rozina, Dept. 30, \$404; P. L. Bishop, Dept. 35, \$354; W. R. Hunn, Dept. 30, \$313; W. K. Gardner, Dept. 30, \$301; J. P. Wells, Dept. 46, \$232; S. W. White, Dept. 6, \$223; and W. E. Johnston, Dept. 33, \$214.

"The caliber of suggestions is much better," said Langendoen, who noted that only one of ten suggestions was installed last year.

"But we still need more participation," he said. "Our backlog is down, ideas are handled on a timely basis—and statistics show how well they pay off!"

J. E. Lafferty earned his award "for something anybody ought to

have seen." Lafferty simply suggested that a less expensive folder be used in permanent filing operations.

The folder previously used was a 22-cent item. The proposed folders cost nine cents—a savings of 13 cents each. But Convair Fort Worth uses over 30,000 of the folders each year. Total savings: \$4,241 a year!

"The idea paid off very well," (Continued on Page 6)

FW Blood Program Has Produced 13,200 Pints Since Start in '48

Ten years ago a distraught father at Convair Fort Worth button-holed fellow employees with a request that was difficult to make.

At stake was his daughter's life. Critically ill, she needed blood. The hospital didn't have it—and had it been available, the employee wouldn't have been able to pay for it. His savings already had gone to pay bills during the illness.

He asked his friends to help out by contributing their own blood.

Public Will See B-58 up Close For First Time

Convair's supersonic B-58 Hustler bomber is scheduled to streak over the nation's capital next week as the delta-wing bomber makes its first appearance in Armed Forces Day celebrations.

The plane also is due to be on display for the first time to the public at several Air Force bases—including Fort Worth's Carswell AFB.

N. B. Robbins, manager of the B-58 flight test program, said Convair "has commitments" for B-58 appearances at Andrews AFB, Washington D. C.; Carswell; and at Kirtland AFB in New Mexico. Kelly AFB at San Antonio is another possibility.

The sleek pod-equipped Hustler is due to be at Andrews May 10-11, where it is scheduled to fly over the capital after a take-off demonstration. The plane will be on static display to the public.

Convair F-102 and F-106 interceptors also will be in the Andrews display. Andrews AFB is near Washington, D. C.

At Carswell, the B-58 will be on static display along with its stable of chase planes.

Citizens of Fort Worth—many of whom have watched the B-58 at a distance during test flights—will see it close-up for the first time. It will be on display there May 17. Another will be at Kirtland on the same day.

Another possible appearance is at San Antonio's Kelly AFB on May 17. All ships will be sent from Convair Fort Worth.

The ninth Armed Forces Day celebration held between May 10 to 18 at option of various bases will enable citizens "to see the mighty force created as a 'Power' (Continued on Page 6)

New Overpass Will Open Way Into CRA Area

A rough railroad crossing on the route to the CRA area at Fort Worth is due to be eliminated next month when the city opens a new overpass which spans the T&P railroad tracks at Horne.

Bryant-Irvin road is the only access at present to Convair Fort Worth's 80-acre recreation area. The present crossing has been a major obstacle to motorists driving to the area since it opened.

The new overpass spans a deep cut about two blocks east of the present crossing.

C. M. Thelin, city public works director, said grading and widening of Stove Foundry Road now is complete, and that the overpass will be opened as soon as paving is finished.

The level of Stove Foundry Road at the overpass was raised about one foot and widened considerably to provide a safe approach to the new structure.

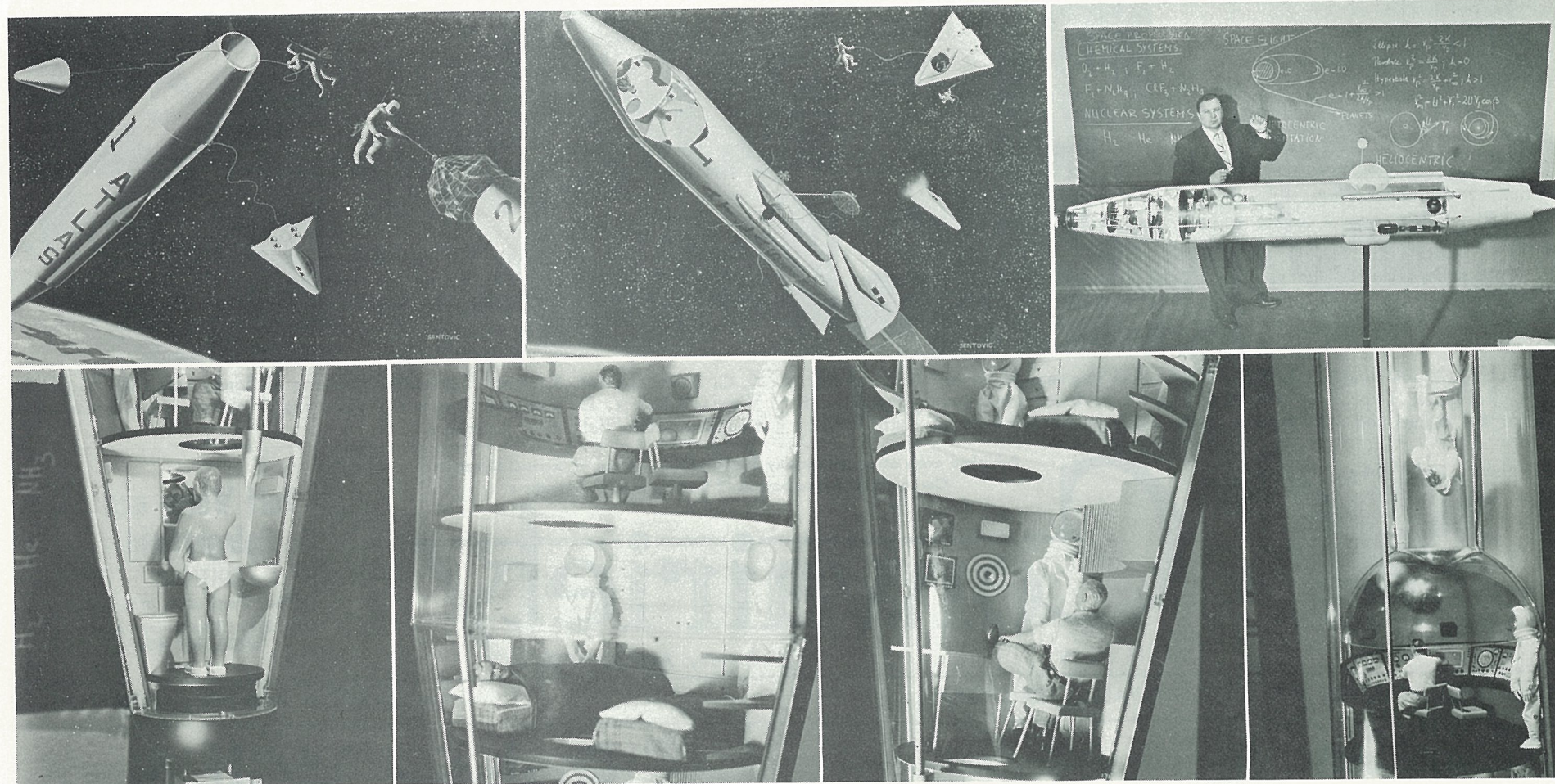
Thelin said the old crossing will be permanently closed when the new overpass opens. The gravel road which serves as a south approach to the overpass will be paved later this year, he added.

Goodwill Industries Elects Sam Keith

Sam E. Keith Jr., chief of traffic at Convair Fort Worth, is new president of Goodwill Industries, a non-profit agency which provides employment for handicapped persons.

Keith succeeds A. J. Doherty, who held the post three terms. Keith is a past president of Convair Fort Worth Management Club and is a director of Convair Employees' Con-Trib-Club, Inc. Goodwill is one of the United Fund agencies which Con-Trib helps support.

Atlas Missile Proposed as Means of Establishing Station in Space



VERSATILE ATLAS—At right above Astronautics' Krafft Ehricke stands beside model of space station designed for 400 miles above earth. Lower photos show crew quarters. Several Atlas missiles would be required to establish station. First would place in orbit the station's basic structure (figure 1, upper left) and sub-

sequent missiles would supply equipment, personnel, etc. In top left, cargo is being removed from cargo ship (figure 2). Crewmen have arrived in glider which has been launched into space as part of upper stage of modified Atlas. Gliders would be used for return trip to earth.

Trip to Moon Forecast Using Nuclear Vehicle

Preliminary designs for a giant (200-foot), two-stage chemo-nuclear vehicle capable of landing a scientific expedition on the moon as early as 1970 have been prepared by Convair Astronautics.

Krafft Ehricke, assistant to Astro's technical director, outlined the plans before a Jet Age Conference of the Air Force Association recently.

Ehricke pointed out that controlled nuclear energy will make possible nonstop surface-to-surface flights between earth and the moon. And with such a vehicle it would be possible to orbit a large payload around the planet Mars.

Although advancements in the technology of nuclear rocket propulsion are classified, Ehricke indicated he is hopeful current de-

velopments will provide practical power plants in the period 1965-70.

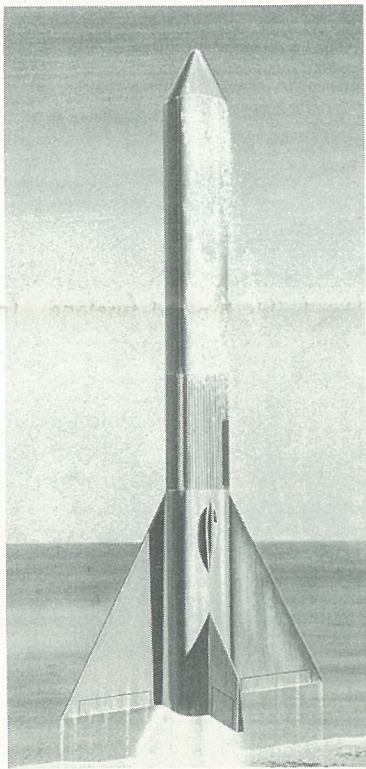
The lower stage of Astronautics' proposed space vehicle would be a delta-wing glider with a 90-foot wingspan. It would be powered with conventional gasoline and liquid oxygen rockets developing 2.7-million pounds of thrust. This manned stage would return to earth following boosting of the second stage beyond the earth's atmosphere.

Power for the second stage, also manned, is nuclear energy.

Because of the dangers of radiation, the power source would be separated from a crew-carrying gondola by steel or tungsten cables approximately 1,000 feet long.

In landing, the rockets would approach tail first to lower the gondola to rest, then alight nearby at the end of their cables.

In this manner, a 22,000-pound payload could be deposited on the moon or a 30,000-pound payload put into orbit around Mars, Ehricke said. By the same token, a 15,000-pound payload can land on the moon with sufficient reserve fuel to take off and return occupants to the earth's atmosphere for transfer to re-entry gliders.



NEXT STOP: MOON—Artist's conception of craft envisioned for flight from earth to moon. Bottom stage is rocket-powered glider. Pilot rides in attached capsule. Inside center section is nuclear power plant. Separation of sections would occur after leaving earth's atmosphere.

Space Station Designed To Orbit at 400 Miles Housing Four-Man Crew

Convair Astronautics last week advanced a plan for establishing a manned experimental space station in permanent orbit using the Atlas intercontinental ballistic missile.

It would be possible to achieve within five years.

The proposal, made by Krafft Ehricke, assistant to Astro's technical director, before a meeting of the National Press Club in Washington, visualized the Atlas in the three major roles.

First, the basic structure for the space station would be a modified propellant tank from the Atlas, fired into space. This stainless steel shell is large enough to house a four-man crew, plus equipment for power generation and testing. It would protect the men and equipment from meteors and temperatures.

Then cargo carriers, built into second stages of the Atlas, would take aloft equipment for the station. Later, other Atlases would supply the needs of the occupants.

Another second-stage vehicle would carry passengers.

The initial four-man crew would begin the work of installing station equipment within the shell. They would transfer needed materials from the first cargo carrier, spinning along with the shell in space. A relief crew would follow, along with additional cargo carriers to finish the station. About a week would be required for the job from the initial firing until the station is habitable, if the proposed height is followed.

A fully-equipped station would weigh approximately 15,000 pounds. It would stretch 106 feet from the crew quarters at one tip to the end of the auxiliary nuclear power installation at the other. The aft portion would be used for equipment storage. Small rockets would provide artificial gravity.

Crew quarters would be within a pressurized rubber nylon structure. Four levels would contain sanitary facilities, a galley and recreation room, sleeping quarters and a control and laboratory room.

Shedding of pressurized suits would be possible only within the crew quarters. An air lock would separate this section from the remainder of the station. Access from the outside would be a

simple manhole.

Since the crew would be "weightless," no stairs or ladders would be required.

Logistics data calls for rotation of crews every two weeks at first, later once a month. Cargo ships with an 8,000-pound payload would come up once each year.

Proportional navigation much like that worked out for interceptor missiles would be brought into action to assure the supply vehicles of arriving in space near the station.

Ehricke proposes the station be established 400 miles above the earth's surface. (Vanguard I was 407 miles from the earth at its lowest point of orbit, while Explorer II dropped to 219 miles). Occasional boosts from power supplies would assure the station a long lifetime.

Ehricke feels the Atlas orbital system would prove a boon to man's quest for knowledge of space. It could be a test-bed for equipment, man's ability to survive, and a central training center. Weather information, geophysical and astrophysical information could be gathered there. And the station could be a jumping off point for further space explorations.

While the initial station would be limited to the Atlas tankage, further expansion would be possible through installations of upper-stage tanks from cargo and passenger vehicles attached to the original station.

Space Model Built On Careful Design

Krafft Ehricke's space station ideas were put on paper by Freeman D'Vincent, Astronautics design specialist, and J. M. Sentovic, Astro artist on assignment to Ehricke from Astro product support.

From their plans and sketches (revised and refined many times after conferences with Ehricke) the space station model was built by a Los Angeles firm. The four "artist's conceptions" on this page are the work of Sentovic, typical of a number used to illustrate Ehricke's presentation before the National Press Club in Washington, D. C. last week.

Five Years Ago...

Following are brief excerpts from Convairity of five years ago:

★ ★ ★

First T-29D, new line of T-29 trainers for the Air Force, is scheduled to go to final assembly at Convair SD by the end of month.

* * *

Convair's SD "youngest" department, estimating (Dept. 9-5), observes second anniversary.

* * *

Hawaiian Air Lines' third Convair 340 sets new speed record from San Francisco to Honolulu.

* * *

V. L. Summitt, Convair labor relations supervisor, is elected president of the SD Personnel Management Association.

* * *

Dr. J. K. Leverett will serve as Convair FW medical supervisor in absence of Dr. R. K. Miller, who leaves for two-year tour with AF.

* * *

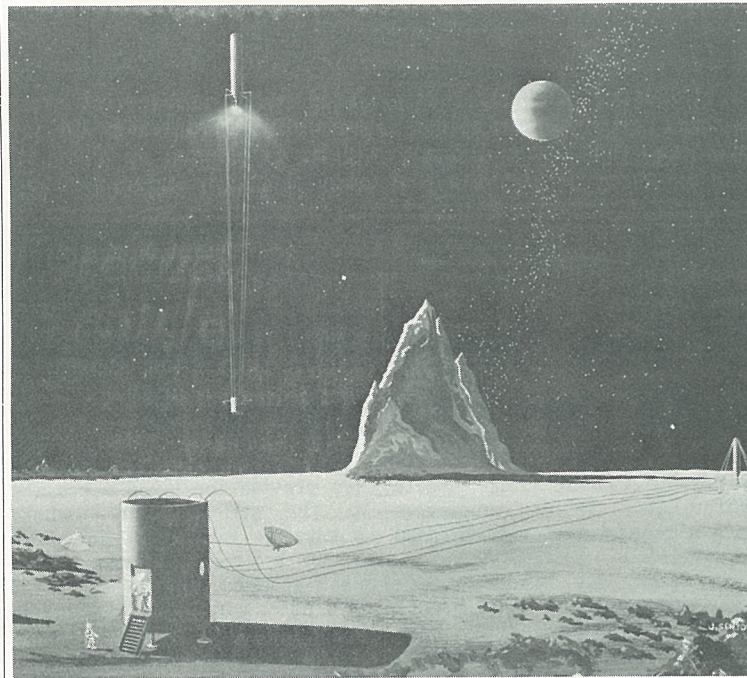
General Dynamics Corporation this month succeeds Atlas Corp. as largest Convair stockholder.

* * *

Tuition refund program is adopted at Convair Pomona for employees enrolled in approved courses, says H. D. Filloon, industrial relations manager.

* * *

Convair Turboliner, Model 240 powered by two Allison T-38 turboprop engines, sets speed and economy records.



MOONLIGHT LANDING—At end of flight to moon, this is how nuclear-powered space liner would land. Vehicle could carry 15,000-pound payload with sufficient fuel to return to position just outside earth's atmosphere. Crew would then transfer to re-entry glider to complete round-trip.

Crow Joins Egg Hunt, Limits Self to Pink

The aerial thefts of a crafty crow, partial to pink, threatened for a time to scramble the CRA Easter egg hunt at Convair Fort Worth's CRA Area.

As employees hid candy eggs, the crow swooped down repeatedly to whisk them away. A cordon of crow watchers was finally set up to ward off the feathered felon.

During his successful forays, the crow took only pink eggs, said C. J. Hall, CRA manager, ignoring the various other colors.



FIRST FLIGHT—F-106B, two-place version of F-106, is shown here landing after first flight this month at Edwards AFB. Pilot has

just "popped" chute to bring it to easy halt. Maiden flight lasted 40 minutes.

Convair Ads Win 'Oscars,' Judged Tops in Nationwide Appraisal

In the annual Awards for "Distinguished Advertising in the Public Interest" appraisal conducted by the magazine The Saturday Review, Convair this year was the only concern to carry away three "oscars."

Considered the top national judging of advertising campaigns, Convair was among 25 to win awards "for distinguished advertising," and in addition was among 13 for best "public service campaigns" and among only eight honored for best "public relations campaigns."

Emmett McCabe, Convair manager of advertising, said the distinguished advertising award is

given for overall excellence during the year. The latter two awards were for specific advertisements, one the "Peace is His Profession" ad and the other the "Golden Anniversary of Silver Wings."

(Incidentally, slightly altered to "Peace is Our Profession," this slogan is being used for a large billboard near SAC's Omaha headquarters and also will be used at other SAC bases.)

Selections were made by a distinguished committee of 33, including educators, editors, advertising and public relations executives of national stature.

Convair's advertising agency is Buchanan & Co., Inc.

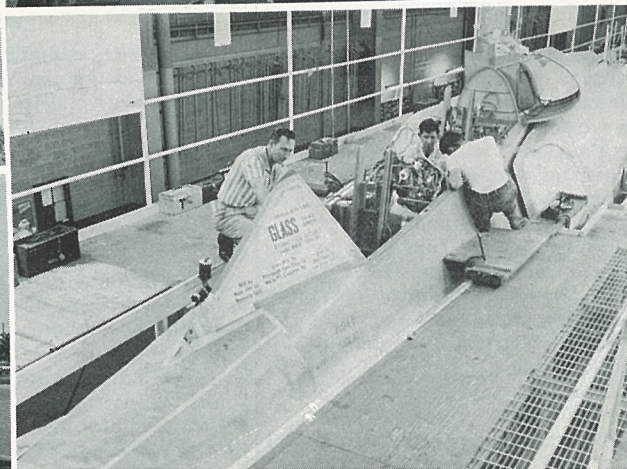
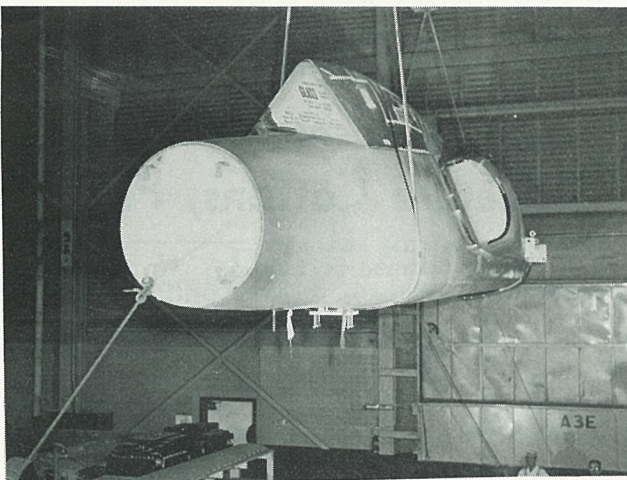
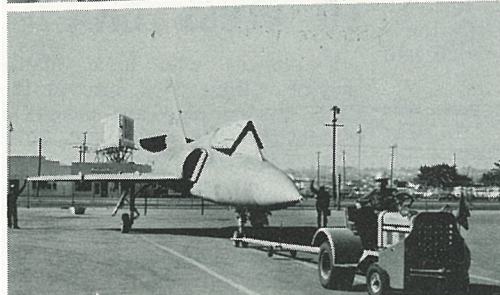
Convair FW Doing Big Business in Plant Tours As 1,500 Pay Visits During Brief Interval

Convair Fort Worth was host to almost 1,500 plant visitors between April 16 and 25. Tours averaged one a day.

Tours included 17 from the Industrial College of the Armed Forces, Washington, D. C.; 400 Fort Worth Public Schools teachers; 300 military and civilian personnel from the National Resources Conference in Fort Worth; and 400 delegates to the National Rifle Association meeting in Dallas.

Also, 50 from Southwest Legal Foundation for Nuclear Energy; 70 from a high school trade symposium in Fort Worth; 30 management training students from Perrin AFB; 85 from International Press Institute; 25 AF ROTC students from University of Arizona; and 50 students from the Institute of the Aeronautical Sciences student paper competition.

Tours were made April 16, 18, 19, 21, 23, 24, 25 and 26.



COOPERATIVE—F-106B requires considerable coordination between SD and FW Divisions, for latter builds forward fuselage. Top left and lower right photos, taken last fall at FW, show finishing touches to fuselage before it was shipped (upper right) to SD for mating. Lower left is No. 1 airplane being shifted from Plant 2 to SD experimental.

F-106B Supersonic on First Flight; Plane Now Passing Phase I Tests

The maiden flight of Convair's two-place jet interceptor, the F-106B, was called "outstanding" this week by John M. Fitzpatrick, engineering test pilot who is putting the plane through Phase I tests at Convair Edwards.

Only "squawk" reported, and Fitzpatrick calls this a minor one, involved the gyro-compass. The entire flight plan for the 40-minute first hop was completed, rather rare for a prototype plane, he explained.

"In general, the aircraft is virtually identical in performance and handling characteristics to the F-106A," Fitzpatrick reported. Although security regulations prevented him from giving a specific answer to questions regarding the airplane's speed, Fitzpatrick did state that the F-106B flew supersonic on its first trip off the ground.

Phase I testing, the initial contractor's test flights to determine safety of the airplane, and preliminary investigation of performance, stability and control, is expected to be completed this month. Within 10 days after the maiden flight, Fitzpatrick had been at the controls of the F-106B for a total of six flights in the test series.

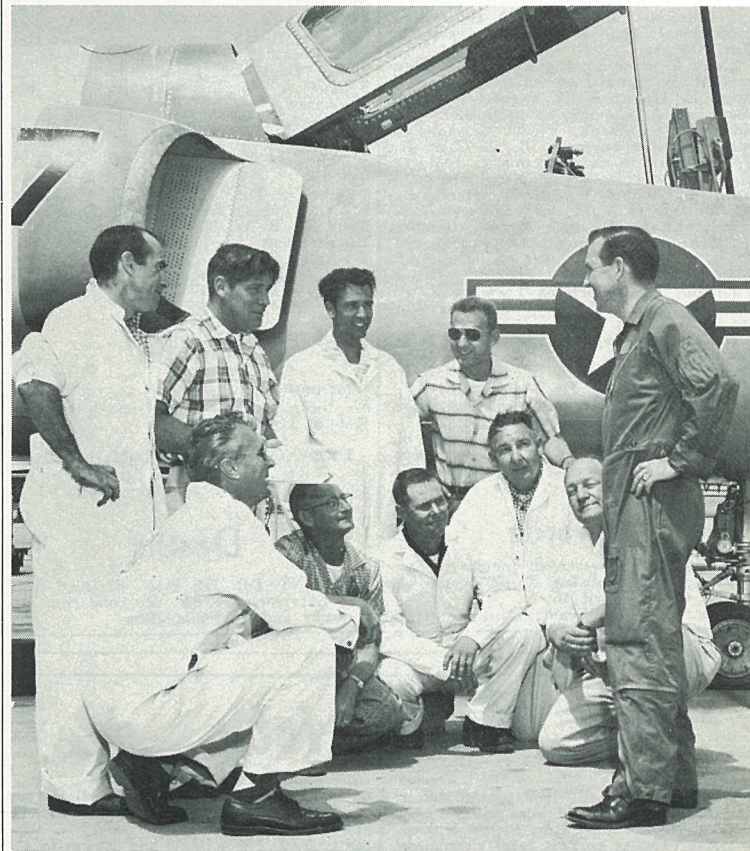
In reviewing success of the

first flight, Fitzpatrick and H. L. Sterling, chief of field operations, Convair Edwards, joined in tribute to the ground crew.

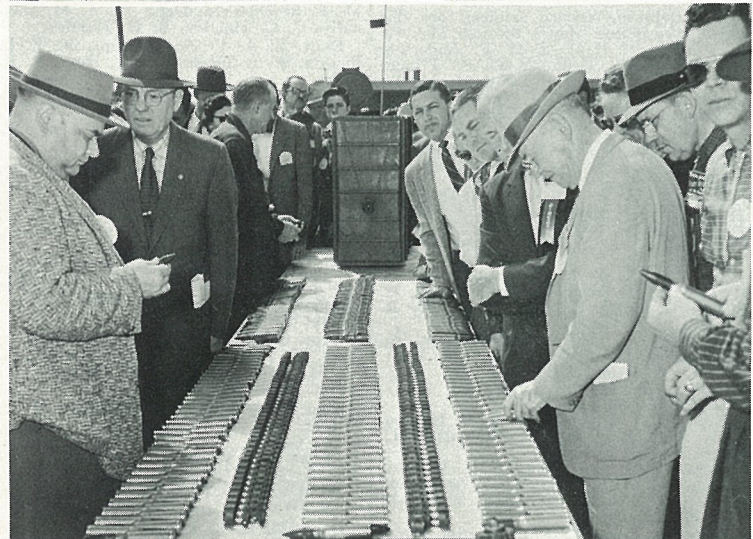
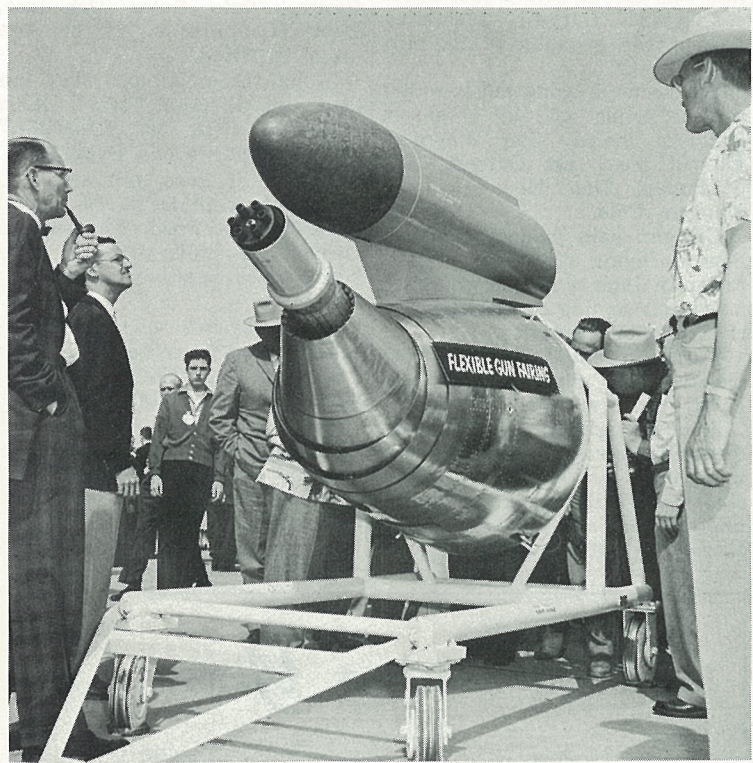
"The work required of the ground crew at Edwards (with assistance from SD Dept. 31) presented many problems and tasks beyond normal routine work and all of the men did an outstanding job," according to Sterling and W. L. McBride, foreman of field operations.

"Working six men on a shift, three shifts a day, seven days a week for a month, the men exhibited real team spirit and high morale," McBride stated.

Assistant foremen of the crews were B. F. Murphy and Gordon Monson, first shift; Phil Wonsyld, second shift; and G. A. LaFond, third shift. Monson was singled out for his assistance in correcting electrical discrepancies on the aircraft.



GROUND CREW—Pilot John M. Fitzpatrick, right, standing, discusses maiden F-106B flight with crew that readied ship. Kneeling in front row, left to right, Frank Troffer, Gordon Monson, J. A. Still, L. Weidert, and W. L. McBride. In back row, A. J. Lillis, B. F. Murphy, R. E. Bradberry, and Ernie Ledger.

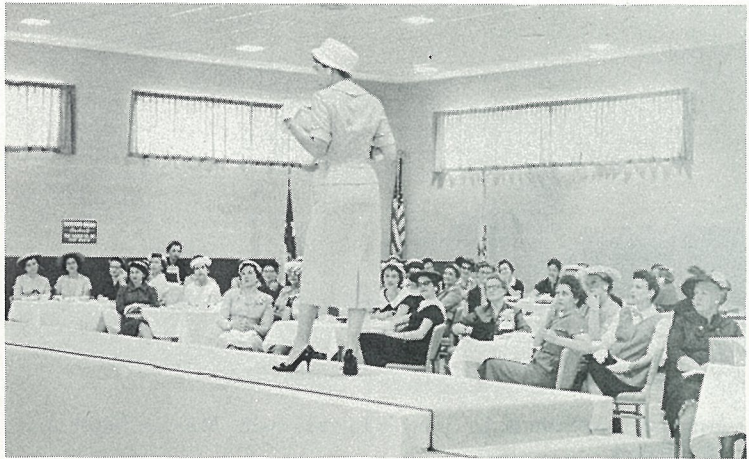


TAIL STINGER—Delegates to National Rifle Association inspected B-58 armament at Fort Worth recently on plant tour. Note "Gatling Gun" type weapon that permits plane to fire all ammunition displayed below in about two seconds.

880 Fire Prevention Subject For Paper

R. R. Romanowich of Convair SD engineering will deliver a paper on "Fire Prevention Design Concept of the Convair 880 Pod and Pylon" at the May 19 meeting of National Fire Protection Association in Chicago.

One day of the conference will be devoted to discussion of fire protection for strut-mounted jet power plants.



CRA FASHIONS—Convair woman models dress from Cox's at CRA women's club morning session. Fashion event for evening group will be Saturday, (May 3).

Women's Fashion Show Saturday To Feature Cottons, Play Clothes

Summer cottons and play clothes will be featured at 1:30 p.m. Saturday (May 3) when women of CRA's evening session of the women's club hold their annual fashion show.

The event will be worked around a vacation and travel theme, with International Travel Agency at Western Hills Hotel furnishing backdrops.

The backdrop decorations are being brought here from the West Coast especially for the CRA show. Styles will be shown from a carpeted ramp.

Fashions will be by Fannie Ragland's Dress Shop and will be worn by Convair models. Shoes will be from Duane's.

Music will be furnished by the Shield Company, and Helen Moore will be commentator. Winnie Leonard, commissioner of the women's activity, said door prizes will be given.

Jean Cassidy is program chairman.

Convair women who will model the styles include Betty Green, Bobbie Fallon, Pat Hedges, Ginger Floyd, Doris Williams, Juanita Payne, Lorraine Fry, and Mary Watson.

Next Plateau: 222 for 666!

Bill Lambert, Dept. 24-1, who bowls in the Guys and Gals league, rolled triplicate games of 148 at R&R Bowlanes April 16.

His total: 444.

Women to Hear Talk on Cancer

Mrs. Sidney J. Wilson will talk on the "American Cancer Society" at a meeting of the morning session of the women's club at 10 a.m. May 14 at the CRA clubhouse.

Mary Smith, commissioner, said a local physician also will be present to answer questions from the audience.

Admission for the event will be 25 cents per person. Refreshments will be served, and a nursery will be available for a 25-cent fee for each child.

Meeting date of the club was rescheduled from May 7 to May 14, and the regular meeting for the morning session on May 21 is cancelled because of the National Industrial Recreation Association conference, which meets in Fort Worth May 18-21.

Volleyball Meet Scheduled May 12

Volleyball league play will end Monday (May 5), with an invitational tournament scheduled to start May 12 at Southside Recreation Building, 215 W. Vickery Blvd.

A. J. D'Ascenzo, commissioner, said regular supervised free play continues in CRA picnic area No. 1 at 7 p.m. on Thursdays and at 3 p.m. on Saturdays and Sundays.

Popular Vote Will Decide Art Winner

Convair artists are asked to submit works for a CRA art exhibition in the CRA clubhouse through May.

The show is to show Convair people the talents of fellow employees and members of their families. The show also will be viewed by delegates to the National Industrial Recreation Association conference.

A winner will be decided by popular vote.

"People voting will be asked to sign a list," said E. D. Weimer, commissioner. "That way, no one can stuff the ballot box."

Each person is allowed only one vote during the entire show.

The exhibition is open to all Convair employees and members of their families. A maximum of three pictures may be submitted, and all entries should be in by May 9 or 10. Each work will be identified with name of artist and title.

Meanwhile, Weimer invites anyone interested in a daytime art class at CRA this summer to sign immediately with the CRA office. Those registering will be notified when a class of 20 is formed.

Plants Needed To 'Dress' CRA

Employees who have plants they're willing to donate to the CRA garden club are asked to contact the CRA office, ext. 5141, to have the items picked up.

The plants will be put out by garden club members to help dress up Convair Recreation Area. Especially wanted are daylilies, iris, petunia, mums, verbena, oxalis, daisies, and marigolds.

F. F. Gignilliat, who helped organize the new club, said donors may either deliver plants to the area, or notify the CRA office to have them picked up Saturday (May 3).

Garden club members work in the area each Saturday morning. Gignilliat said more than 100 climbing rose bushes put out along the fence line three weeks ago "appear to be taking hold."

Honeysuckle was planted around the tiny tot area last weekend, and donated plants will be put out next weekend.

New club officers elected April 23 are R. S. Pluskey, president; J. T. Cokerham, vice president; Doris McKee, secretary; and Alice Arnold, treasurer.

Tot Area Opens; Train on Schedule

CRA's tiny tot area now is in operation from 9 a.m. to 11 p.m. each day, and the "CRA Express," the miniature train ride for children, is operating on a regular schedule.

Parents attending functions in the recreation area may now leave toddling children through six at the tiny tot area, where a woman attendant is on duty continuously.

Fee is 25 cents an hour for each child, with a maximum charge of 50 cents an hour if there are more than two children in a single family.

Children will have access to the tiny tot building, which is newly decorated and equipped, and to the fenced play area outside the building.

Outside playground equipment includes slides, swings, and sand boxes. Only children left in the area by parents will be allowed inside the fence.

The huffin' puffin' express runs from 10 a.m. till noon and from 2 p.m. to 6 p.m. Tuesday through Friday. It runs from 10 a.m. to noon and from 2 p.m. to 8 p.m. on Saturday, and from 2 p.m. to 8 p.m. on Sunday.

Fare is five cents for several round trips.

C. J. Hall, CRA manager, said hours of operation will be added as weather improves.



SACK IS BACK—Mrs. R. C. Case, left, and Lois Cole show new chemise-look, but the youngsters, Renee Smith, Patricia Gosney and Mary Elizabeth Schauer, stick with frills. Lois got her dress as birthday gag, gamely wore it.

'Sacks Are for Potatoes!'

Convair Women Speak Out For, and Against, New Styles

Mrs. R. C. Case got the warmest applause of the day as she walked down the ramp to model a new chemise for 170 women attending the CRA women's club fashion show this month.

The "sack-look" featured waist

length beads. On her, the outfit was a knockout!

And that seems to be the reaction of Convair women to the new look. They like the chemise on other women, but many are not sure of the dress for themselves.

Comments range from "I like them if they touch here and there," to "sacks are for potatoes!"

Carol Nelms, Dept. 27, says "they're cute and comfortable," but Freda Prater, Dept. 7, describes them as "too tight at the bottom and too big at the top."

Ruth Israel, Dept. 31, thinks they are not flattering to the figure, while Helen Ocheltree, Dept. 11, approves, "if they are properly fitted."

"I like them because they are new and different," said Helen Cockburn, Dept. 33. "Horrible," said Mildred Stevens, Dept. 56.

And so it goes, pro and con. But a clerk in Dept. 54 should have the last word. She owns a chemise, a polka-dot job with "deep black hemline and bow to match."

The dress was sewn by Louise Baldwin and presented to Lois as a birthday gag. The creation cost \$2. Lois' word: "Lousy!"

Betty Hennersdorf, Dept. 4, says "they're all right for other women." Another woman, Ethel Swanson, explains "I just can't find courage to buy one."

Regardless, the sack is back.

CRA's 19-inch Scope Is 'Taking Shape'

Texas' fourth largest telescope—CRA's 19-inch job—is "taking shape at a rapid rate," according to Art Gilligan, commissioner.

A volunteer crew works on the scope on alternate weekends and now has the structure just about completed. Largest remaining task is the grinding of its mirror.

The scope is being put together at the home of Bill Johnson. Builders include Joe Wagoner, Marvin Fox, Ed Calvert, Bill Stockman, Don Hennrick, and Norman Cole.

Gilligan said medals of merit now are being struck for presentation in June to people who have made outstanding contributions to the astronomy activity.

To be presented are three gold medals, four silver medals, and eight bronze medals.

John Farrell, amateur astronomer and astro-photographer who maintains an observatory at Granbury, will speak on astro-photography at a meeting of the astronomy activity May 21.

The Passing Years...

Fort Worth

The following service emblems are due during the period May 1 through May 15:

Fifteen-year: Dept. 3, D. F. Anderson, M. A. Stewart; Dept. 7, M. K. Flippo; Dept. 9, O. P. Brown; Dept. 14, M. W. Jackson; Dept. 15, A. W. Pendleton.

Dept. 16, L. E. Barlow; Dept. 19, W. Q. Gresham; Dept. 22, D. L. Buckingham, M. P. Crumby, M. B. Egbert, R. M. Gallagher, F. W. House, G. F. Pearson, F. M. Stready, E. L. Uland.

Dept. 24, F. Gee, W. H. King; Dept. 25, H. T. Barr, C. Gibson Jr., S. N. Hobbs, H. H. Powell, F. Procella; Dept. 26, J. V. Harris; Dept. 27, S. F. Hendrixson, R. W. Robinson.

Dept. 29, C. B. Bacon; Dept. 30, R. C. Cooper, L. D. Farquhar; Dept. 31, G. H. Cruise; Dept. 32, E. Main; Dept. 36, R. Castillo.

Dept. 41, T. C. Huddleston; Dept. 46, A. T. Morris; Dept. 48, M. E. Long; Dept. 54, W. T. Brumelow; Dept. 58, J. L. Futch; Dept. 64, D. A. Gordon, C. G. Hilliard, F. E. Sutton.

Dept. 65, T. D. Foreman, R. D. Hendry, L. R. Pugh, J. C. Pursley; Dept. 81, J. C. Berry, F. A. Christophe.

Dept. 82, N. W. Bennett, J. A. Henderson, R. E. Nausche; Dept. 94, L. P. Donley, J. C. Pursley; Dept. 95, F. E. Boswell.

Ten-year: Dept. 4, D. L. Winton; Dept. 6, J. L. Pinkerton; Dept. 7, A. J. James; Dept. 9, E. S. Harding; Dept. 14, J. T. Goggans, E. F. Looney.

Dept. 19, V. L. Manning, C. V. West; Dept. 20, J. L. Parnell; Dept. 22, A. J. Buchel Jr., D. N. Nordeck; Dept. 24, J. C. Church, H. S. Hale.

Dept. 25, F. Hunter, F. V. Lormis,

K. G. Mikeal; Dept. 27, J. M. Conerly, M. F. Stubblefield; Dept. 29, A. M. Connally, C. C. Hartley, R. H. Hartley.

Dept. 32, L. O. Graff; Dept. 36, F. L. Bouton, W. L. Edwards, J. T. Horn, R. R. Sells.

Dept. 42, F. G. Conaway, L. D. Edwards, D. D. Elliott, J. I. Embury, I. F. Graston, G. W. Logan, R. D. Todd, W. Wilson, M. N. Woods.

Dept. 46, E. Belcher, V. H. Driggers, J. C. Hale, D. L. Hensley, H. E. Hilliard, J. E. Johnson Jr., C. L. Jones, T. J. Luther, J. W. Martin, K. A. Polnac, H. D. Story, R. M. Street, L. L. Thomason, R. E. Tynes, H. L. Watkins.

Dept. 57, J. C. Holaway, H. P. Walsleben; Dept. 58, M. E. Luten, J. T. Underwood, W. D. Williams, D. Wooten; Dept. 59, H. Robertson.

Dept. 64, M. W. Trainor, R. L. Warren; Dept. 65, J. C. Head, C. J. Weaver; Dept. 73, H. P. Holton, M. T. Kemp, L. T. Owen, J. B. Rattan.

Dept. 74, J. R. Clark, D. J. Davis, T. R. Deaver, C. M. Downing, S. T. Galik, E. W. Greene, R. S. Jones, J. P. Ledesma, J. Long Jr., V. McKinney, A. G. McKissick, B. R. Martin, P. M. Martinez, J. Z. Otley, M. H. Salter, J. C. Stone, C. E. Watson.

Dept. 75, A. R. Bridges, W. P. Holland Jr., L. F. Hornbuckle, H. L. McKenzie Jr., J. C. Pirtle, W. W. Pruitt; Dept. 77, W. W. Holden, H. E. Weaver.

Dept. 81, M. F. Blanton, D. P. Boydston, H. A. Kelly, D. D. Lockhart, R. W. Williams; Dept. 82, C. S. Erwin, T. Price; G. A. Wellborn; Dept. 95, L. H. Wyler; Dept. 96, H. E. Willenborg.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective April 14 are:

Dept. 6: to design engineer, M. L. Duncan, R. K. Lovell; to senior design engineer, E. Hurst, B. D. Pyeatt; to design specialist, A. Clemen; to propulsion engineer, R. L. Aaron, V. L. Glasgow; to senior nuclear engineer, B. L. Cash Jr., J. E. Hand; to assistant project engineer, G. R. Hauser; to senior aerophysics engineer, E. Adams Jr., J. K. Henderson, A. W. Ivy; to flight test engineer, A. L. Bondurant, R. L. Bray, H. W. Standlee, E. Meinstein; to senior operations analyst, R. A. Gorrell; to structure engineer, J. E. Blackerby; to associate engineer, C. R. Bingham; to engineering chemist, R. V. Fox; to engineering writer, J. L. Pinkerton.

Dept. 7: to subsystems liaison man, D. R. Elmore; Dept. 8: to manufacturing engineer, A. C. G. Pratt Jr.; Dept. 16: to technical supervisor, H. T. Barr.

Dept. 27: to outside inspection representative, H. O. Washam; Dept. 28: to process analyst, F. Spearman; Dept. 81: to assistant foreman, E. L. Cooper; Dept. 85: to customer service engineer, W. I. Lane Jr.

Awards

The following received Employee Suggestion awards totaling \$1,403.35 for the period ending April 16:

Dept. 4, F. E. Evans; Dept. 6, H. S.

Carter, C. S. Green, C. H. Flanagan; Dept. 14, G. L. Guthrie; Dept. 21, N. R. Morrison; Dept. 22, R. D. Lilly, T. L. Busby.

Former Dept. 24 employee, Maurice Garrett; Dept. 25, J. W. Walters Jr., D. L. Hurst; Dept. 27, J. A. Johnson, G. T. Teague, A. M. Chancellor Jr., A. J. McKinnerney.

Dept. 30, J. E. Jones, B. E. Rankin, Joe Rozina, G. F. Dempsey, M. R. Clark; Dept. 31, O. E. Kitchens; Dept. 32, E. W. Moran.

Dept. 33, D. W. Duham, Z. McDonald, B. A. Yandow; Dept. 35, C. D. Beaird; Dept. 36, R. W. Koehler; Dept. 46, J. E. Horne; Dept. 55, O. R. Taylor.

Dept. 74, F. A. Jones; Dept. 75, R. C. Gunter, W. E. Mauldin; Dept. 81, C. Nation; Dept. 82, J. S. Kemp.

Births

DUBOIS—Phillip Dean, son, 8 lbs. 3/4 ozs., born April 20 to Mr. and Mrs. H. A. Dubois, Dept. 82.

URBANOVSKY—Cheryl Marie, daughter, 7 lbs., 14 ozs., born April 18 to Mr. and Mrs. E. R. Urbanovsky, Dept. 74.

Deaths

DOWNS—Ben, 54, Dept. 32, died April 19. Survivors are his wife, one son, two stepsons and a stepdaughter.

★ Convairiety ★

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, news editor; Grayce Fath, Helen Pemberton.

FW Editorial Offices, Col. 71-C. Ext. 8245. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.

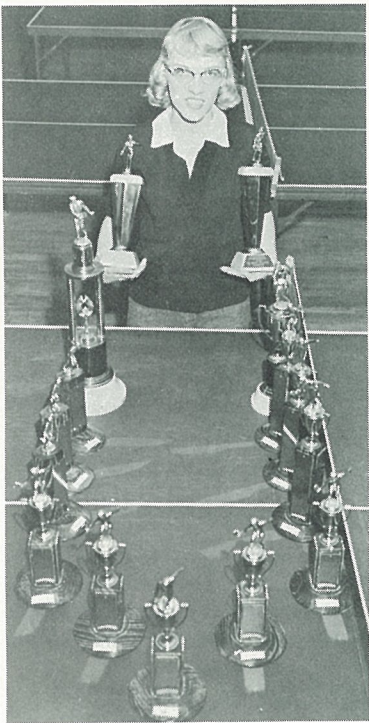
Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8. Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Carolyn Norman Is National Champ; CRA Team Sweeps Louisiana Open

Carolyn Norman, 17, daughter of Lydia Norman, Dept. 19-2, now holds two national table tennis titles, women's singles consolation and the junior mixed doubles championship.

The Arlington Heights High School student represented CRA



THE CHAMP—Carolyn Norman, CRA, state and national table tennis champ, shows this month's trophies.

in the national table tennis tournament at Asbury Park, N. J., this month. She teamed with Leonard Cooperman of Los Angeles to take the doubles crown.

Carolyn also holds the CRA and Texas women's singles championship.

She was accompanied to the national event by her parents, Jud and Lydia Norman; Louie Lancer, and L. A. Sandquist. Lancer went to the third round before he was defeated by Bobby Gusikoff, seventh-ranked U.S. player, in three straight games.

Lancer is state men's singles champion.

Lydia Norman lost to Marianne Bessinger of White Plains, N.Y., in women's singles, and Sandquist lost to Herb Conner of Kansas City in the Esquire singles event.

The powerful Texas squad brought home still other trophies. Stopping to participate in the Louisiana Open at New Orleans, the CRA table tennis enthusiasts won just about every major event.

Carolyn Norman breezed to the women's singles trophy, then teamed with her mother to capture women's doubles. Bob Ashley of Los Angeles teamed with Lancer to take the men's doubles crown, and Lancer and Carolyn won the mixed doubles event.

Then, as a crowning blow, Carolyn breezed to victory in the junior singles event to climax the tournament.

Classic understatement by Lancer: "We probably won't be welcome there again!"

Major CRA Team Will Play Ball In Dallas League

CRA's major baseball team will be affiliated with the Dallas City League this year, according to Roy Jarl, commissioner.

Contests are already under way in the 28-game season schedule.

Jarl said the Dallas affiliation was arranged because Fort Worth will have no major baseball league this year. Most games, as a result, will be played in Dallas.

Tilts slated for Fort Worth will be played on the CRA diamond.

Jarl said the Convair team has worked out for about three days a week for some time and that Manager Bobby Franks just about has his team selected. They played their first game last Sunday in Dallas.

In departmental baseball, Dept. 3 defeated Dept. 25 in a 11-7 thriller, and Dept. 35 breezed by Dept. 30, 7-0. Other games were rescheduled because of rain.

In the tournament opener, Pitcher George Rowden struck out 14, but still had to scrap to get the Dept. 3 victory. Dept. 25, in a late-inning rally, scored three runs and left a man on third to make the score 6-7. Dept. 3 pulled away with four additional counters in the last inning.

There have been no homers recorded, but two men have tapped out three-baggers.

New Tennis Courts Near Completion

Two new tennis courts at the CRA area are due to be completed by this weekend, but regular CRA tennis practice will be held this year at courts in Forest Park.

Gene Records, commissioner, said practice sessions will be held on Tuesday and Thursday nights, beginning May 6, from 6 to 9 p.m. The practice will lead to annual tennis tournament play this summer.

C. J. Hall, CRA manager, said cement is poured on the new CRA courts, and the backstop fences are due to be completed this week if weather is favorable.

The cement court slabs have a red topping—"just like the courts at the famous Los Angeles Tennis Club"—and will be available for use during daylight hours.

CRA plans include lights for the courts in the future. They are located just south of the CRA clubhouse.

350 Women Join New Health Club

The women's health club room in CRA area appears to have aroused considerable interest, according to H. L. Carter, weight lifting commissioner.

More than 350 women are now registered for the club, with new members signing each day. Membership is \$1 per year, which goes toward purchase of new equipment.

"I went by there to check early one morning," Carter said. "Sixteen women already had worked out and left."

Top Golfers Win Colonial Tickets

Tickets to Colonial National Invitational Golf Tournament went to top teams in each four flights during the April golf sweepstake, said L. H. Armstrong, commissioner.

Winners were: A flite, R. E. Burner and J. E. Goodwin; B flite, R. L. Fuqua and L. E. Maxwell; C flite, B. W. Browning and J. L. Billingsley; and D flite, Robert Snow and Roy Pacheco.

All winning teams won eight balls each. The sweepstakes was held at Meadowbrook Golf Course on April 19.

Golf Is Scheduled At Daingerfield

Golfers at Convair Daingerfield will compete in a tournament at Princedale Country Club at Pittsburg, Tex., at 8:30 a.m. May 3.

Commissioner W. D. Kennedy urges all golfers to participate. He said the last Monthly tournament was a fine event, but said still more participation is desired.

Is It News?

Is it news? Then grab a telephone and call Convairiety:

In Fort Worth: ext. 8245
In Daingerfield: ext. 424

CRA Bombers Win As Softball Begins

Umpire Buck Kraus yelled "play ball!" Jim Moore took his position as catcher for the Props. Bomber D. R. Cooper stepped into the batter's box, and CRA softball was under way.

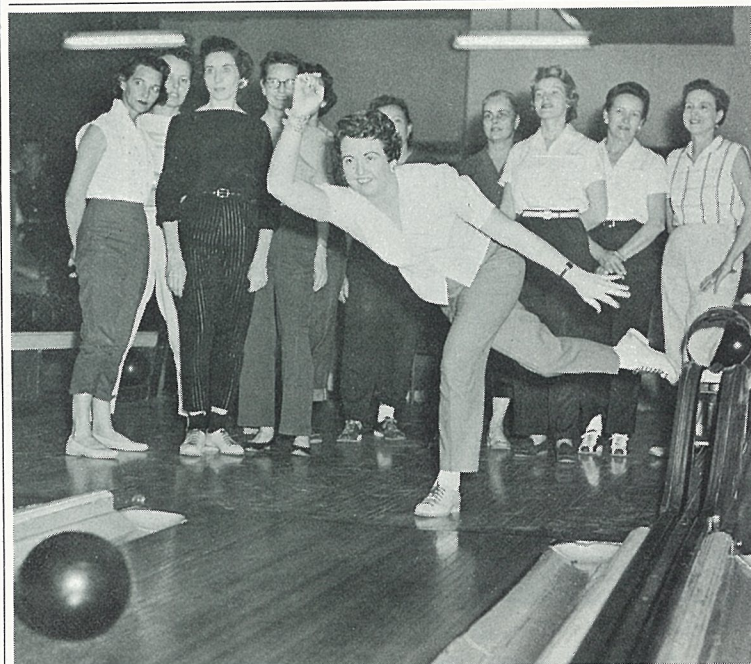
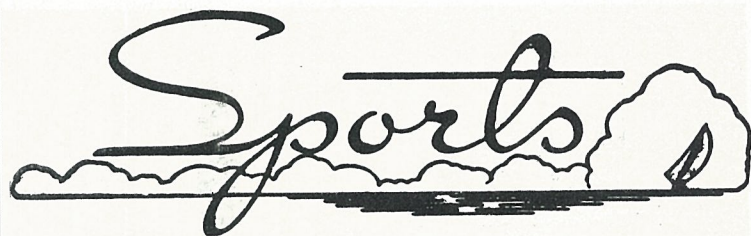
Cooper promptly slapped a two-base hit, and the Bombers were on their way to a 10-0 victory. It was the first game played on the lighted diamonds at CRA area, where action is scheduled four nights a week.

First women's league games were rained out, and some second shift contests met a like fate. Twelve teams from two engineering leagues also are in action.

CRA league results: Bombers, Missiles, 2-0; Hustlers, White Horses, Hawks, Props, 1-1; Rockets, Traffic, 0-1; Ragknats, 0-2.



FIRST UP—CRA softball season opens with a bang as D. R. Cooper, first man up, slams out a double.



STATE'S BEST—Jessie Hall of CRA Classicette league shows form that won state all events class E championship.

Jessie Hall Wins State Bowling Title

Jessie Hall of CRA's Classicette bowling league rolled a 1,403 all events total to take the class E championship at the Women's State Bowling Tournament at El Paso.

CRA Rollers, a team consisting of members of two top Classicette teams, placed ninth in the tournament. The team included Verna McBride, Lucille Warner, Uldene Martin, Jessie Hall, and Rex Rexroat.

CRA Names Four New Commissioners

New commissioners now serve with the bowling, model airplane, stamp and coin, and weight lifting activities. The new appointments were announced by T. G. Croft, chief of employee services.

The new commissioners are H. F. Carlberg, bowling; C. L. Price, model airplane; L. R. Wilson, stamp and coin; and H. L. Carter, weight lifting.

They succeed H. G. Starkey, E. E. Scott, J. M. Frost, and I. B. Hale.

Carlberg, who joined Convair in 1940 at San Diego, organized the engineering bowling league when he came to Fort Worth in 1942. He has been an active bowler since that time. He is a group engineer.

Price, senior design engineer, is president of the radio control section of the model airplane activity. He said he has built models "ever since I can remember." He has been with Convair 13 years.

Wilson replaces Frost, who agreed to act as temporary commissioner last year. Wilson first joined Convair in 1946 and is an electronic data programmer in Dept. 19-4.

Carter, Dept. 22 assistant foreman, worked closely with former commissioner I. B. Hale to get the weight lifting activity in operation in the CRA area. He has been with Convair nine years.

Convair-Lockheed Bowling Scheduled

The annual Convair-Lockheed bowling match will be May 11 at Tavener's Playdium. Management Club bowlers are asked to enter the event prior to Monday (May 5).

A. J. Baskin, club bowling chairman, said entry fee for the team event is \$2.50, with an additional \$1 fee for the singles event. The singles will be bowled simultaneously with the team event.

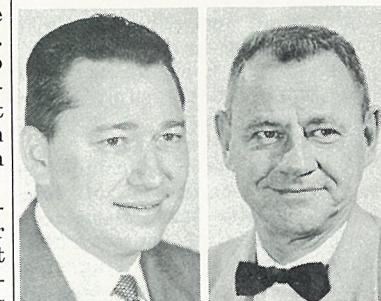
Meanwhile, in Burbank, California, the Lockheed bowlers will be rolling their games in competition with Fort Worth.

"They now have the trophies," Baskin said. "I am dead set on returning them to Convair Fort Worth."

Entries should be made with George Symm, ext. 3153; John Dreiling, ext. 4189; or Preston Wisely (second shift), ext. 3223-2185.



H. L. Carter C. L. Price



L. R. Wilson H. F. Carlberg

Activities Calendar . . .

Fort Worth

ART—E. D. Weiner, commissioner, ext. 5205. Sign up for summer art class at CRA office.

BADMINTON—H. R. Harrison, Annex 1, ext. 32. Play Thursdays, 7:30 p.m., Stripling Jr. High.

BRIDGE—G. P. Anderson, commissioner, ext. 3226. Duplicate sessions: Fridays, 7:45 p.m.; Wednesdays, 9:30 a.m., CRA Building.

CHESS—R. W. Wooten, commissioner, Annex 2, ext. 302. Tournament May 3, 1 p.m., May 4, 2 p.m., CRA Building.

MOVIES—May 5-9, "The Gaine Mutiny" (color) with Humphrey Bogart; May 12-16, "Boots Malone" with William Holden. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner, ext. 2186. Business meeting May 13, operating nights May 1 and 8, 7:30 p.m.; Novice code and theory class, Saturdays, 10 a.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

ROCKHOUNDS—R. L. Norment, commissioner, ext. 7181. Meeting May 13; classes each Thursday, CRA Building.

SOFTBALL—R. L. Evans, commissioner, ext. 5141. Games Tuesday through Friday, 7:30 and 9 p.m., CRA area.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each

Thursday: beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

STAMP AND COIN—J. M. Frost, acting commissioner, ext. 7190. Mixture picking May 6, 8 p.m., CRA Building.

TABLE TENNIS—C. G. Barton, commissioner, ext. 2294. Play Tuesdays, 7:30 p.m., CRA Building.

TENNIS—Gene Records, commissioner, ext. 2164. Season begins May 6. Play Tuesdays and Thursdays, 6-9 p.m., Forest Park Courts.

VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 8131. Free play Thursdays, 7 p.m., Saturdays and Sundays 3 p.m., CRA area. League play ends May 5; tournament begins May 12, 7 p.m., Southside Rec. Building.

WOMEN'S CLUB—Winnie Leonard, commissioner, ext. 5201, first shift: fashion show May 3, 1:30-3:30 p.m. Mary Smith, commissioner, ext. 4221, second shift: meeting May 14, 10 a.m. CRA Building.

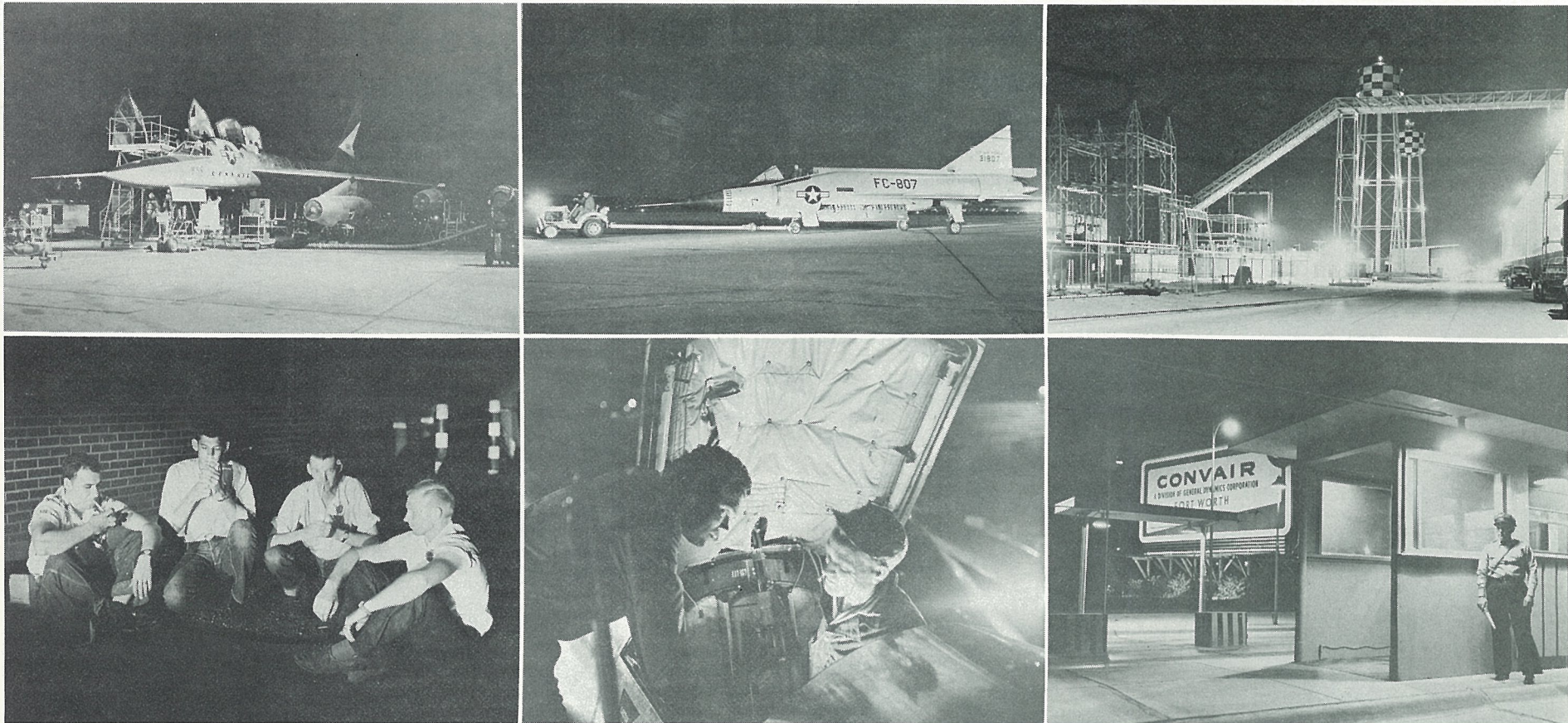
Daingerfield

BRIDGE—J. R. Nazzal, commissioner, ext. 481. Party bridge second and fourth Thursday, 7:30 p.m. See bulletin board for location.

GOLF—W. D. Kennedy, commissioner. Tournament May 3, 8:30 a.m., Princedale Country Club, Pittsburg, Texas.



DAINGERFIELD OFFICERS—W. H. "Bill" Robinson, left, is new CRA president at Convair Daingerfield. Others are, left to right, Mrs. Jean Connor, secretary; J. W. Nix, vice president; and H. S. Cave, treasurer.



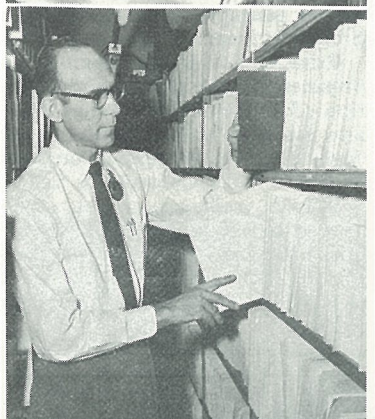
NIGHT LIFE—Convair Fort Worth is alive "around-the-clock," though "pulse beat" slows a bit in wee hours. Top left: crews on second shift continue No. 1 job of preparing B-58s for flight test. Top center: R. G. Morgan of traffic tows F-102A along quiet flight line with John Barton in cockpit. Top right: bridge that carries

power cables into plant from new substation combines with lights to form interesting pattern. Lower left: E. F. Wilson, C. H. Haile, J. M. Morris, Junior Price, Dept. 34, take a smoke break. Lower center: H. E. Bickley and C. T. Ludwick, Dept. 64, discuss task in B-58 cockpit. Lower right: Guard Ed Cox on lonely vigil.

ES Pay-offs Averaging \$70 to FW Suggesters

(Continued from Page 1)
Lafferty said. "The lighter folder serves the same purpose."
Creamer owns the year's highest award to date "because I just got tired of applying an extra layer of fiber glass cloth."
Creamer's job was making board-like stiffeners from scrap honeycomb. The scrap was pieced together and three layers of fiber glass cloth and adhesives applied.
Creamer suggested that the stiffener gets its strength from the honeycomb and that two layers of fiber glass cloth would be enough to hold the board together. Result: A savings of \$11,452 a year in labor and materials. Creamer's share \$1,145!
Colvin, an employee in the autoclave area, simply suggested placing perforated rubber sheets between beaded panels and bleeder cloths in his department's operations. Total savings: \$7,056 a year in labor which formerly was needed to remove strands of bleeder cloth which became impregnated along the part's glue

line.
Rozina—winner of last year's highest award—already has repeated this year. He suggested a way in which precision-drilled sleeves could be manufactured on automatic machines. Output was tripled, saving the division \$4,048 in one year.
Langendoen said the examples illustrate "how seemingly simple ideas are worth money." If an employee thinks he has an idea that will save the company money, Langendoen said, chances are one in five that he is right.



Engineers to Advise Boys' Science Club

(Continued from Page 1)
if the club is successful.
J. C. Jones, who proposed the club, said it will accommodate a minimum of about 25 boys of high school age. The club is to foster interest in electronics.
Organizers hope to have the club in operation "before school is out this year." A meeting place now is being sought.
Club projects will include design and construction of electronic circuits—based on a member's stage of advancement. There will be eight stages of competence, plebship through leadership.
Under the plan, members will run their own club with a minimum of direction from adults.

Public to See B-58 Armed Forces Day

(Continued from Page 1)
for Peace."
In addition to the Armed Forces Day celebrations, a B-58 also is scheduled for a static display and "flyby" May 6-7 at the Air Force's annual firepower demonstration at Eglin AFB, Florida.
The firepower demonstration annually is host to many of the nation's civic leaders, who witness just about everything in the nation's arsenal. The demonstration shows most weapons in action.

SIMPLE, TOO—Top: K. R. Creamer, Dept. 82, took home \$1,145 for comparatively simple idea that third layer of fiber glass unnecessary in making stiffeners. Center: J. E. Lafferty, Dept. 6, got \$422 for suggesting less expensive file folder. Below: C. L. Colvin, Dept. 33, received \$705 for improved technique in autoclave area.



"Well, you must have goofed somewhere along the line."

FW Blood Program Now a Decade Old

(Continued from Page 1)
almost equal number of trips to local blood banks to make "deposits."
"There is no question but that we have saved lives," said Mit Stewart, who coordinates the program.
The blood donor replacement program was taken into CRA under presidency of Harvey Starkey in 1950.
CRA now maintains a card file of each past donor—and of others who indicate they will give blood when needed. Some 2,000 names, along with their blood types, are in the current file. It takes only minutes to find donors of a particular blood type.
And the file has donors of all types—from the rare A-B (Neg.) to the most common type, O (Pos.).
Of the four types, A-B, A, B, and O, only three people out of a hundred have the A-B type. And only three per cent of those have blood with a negative RH factor. Six of these rare blood types are listed with the CRA blood donor replacement program.
The program works like this: when a Convair employee or member of his immediate family needs blood, a request is made to CRA. Donors are contacted and arrangements made to donate the blood at a hospital. If an urgent donation requires an hourly employee to lose time from work, CRA reimburses the employee for actual wages lost.
"The program has saved hundreds of thousands of dollars for employees," Stewart said. "But that is not nearly so important as the lives that have been saved."
"And it also eliminates the embarrassment and anxiety caused an employee who must 'look for blood' himself."

CLINIC CANCELLED

A Convair Fort Worth Management Club-sponsored personal development clinic scheduled for April 19 was cancelled by the club's board of control. Registrations were insufficient to insure the clinic's success.

'Night Owls' Total Over 5,000 at Convair FW

As Convair Fort Worth's 16,000 first shift employees stream out of the plant this afternoon, another 5,000 take over to assure that the division's overall task continues uninterrupted.
And at midnight more than 500 report for the third shift, to take up where the second shift left off.
Largest single area of effort on the second shift is in preparing B-58 bombers for continuing flight test. Over 500 are assigned to development departments.
Nearly 1,500 more, however, are in various factory departments, with some 220 extending usefulness of machines in the machine shop to a 16-hour day. Modernization keeps about 230 busy, tooling departments claim over 350 and about 280 are occupied in inspection.
Ed Cox, main gate security guard, gauges the division's night activity by the flow of traffic through his gate.
"There's rarely a dull moment on the second shift, but it gets pretty lonely on the third," he said.
Modernization accounts for the

largest single group on the third shift, claiming 140. The next largest group is that of industrial security in maintaining fire and police protection.

Brother of FW Man Youngest AF Colonel

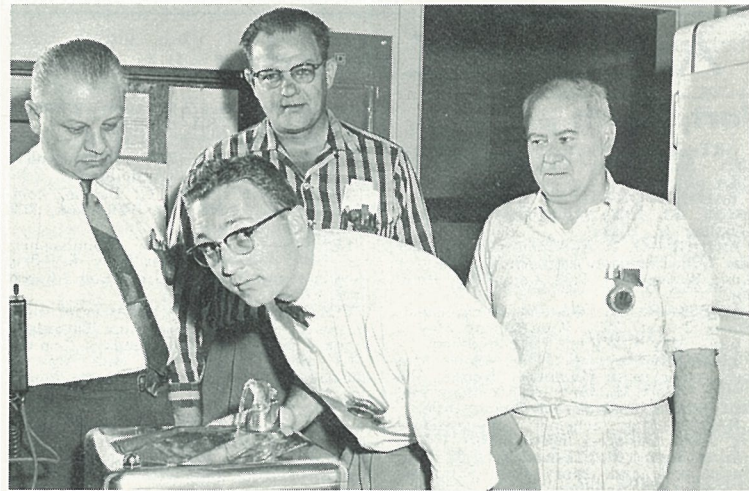
The Air Force's youngest officer of colonel rank, B. J. Cavnar, 33, is a brother of B. P. Cavnar Jr. of Convair Fort Worth's industrial facilities department.
The young officer received his promotion this month. He is a ballistic missile project officer in the Pentagon and is an Air Force "15-year" man.
Cavnar was a pilot of Convair B-36 bombers at Carswell AFB until 1955, and before that served on a classified project in the arctic region, where he once made an unprecedented rescue. He landed a C-54 on an ice cap to take off the crew of a B-29 which made an emergency landing there.
Cavnar was a wartime instructor on Convair-built B-24 Liberator bombers, and was commended recently for compiling a history of the Convair B-36 for the Air Force.

JET AGE TRAINING SUBJECT FOR TALK

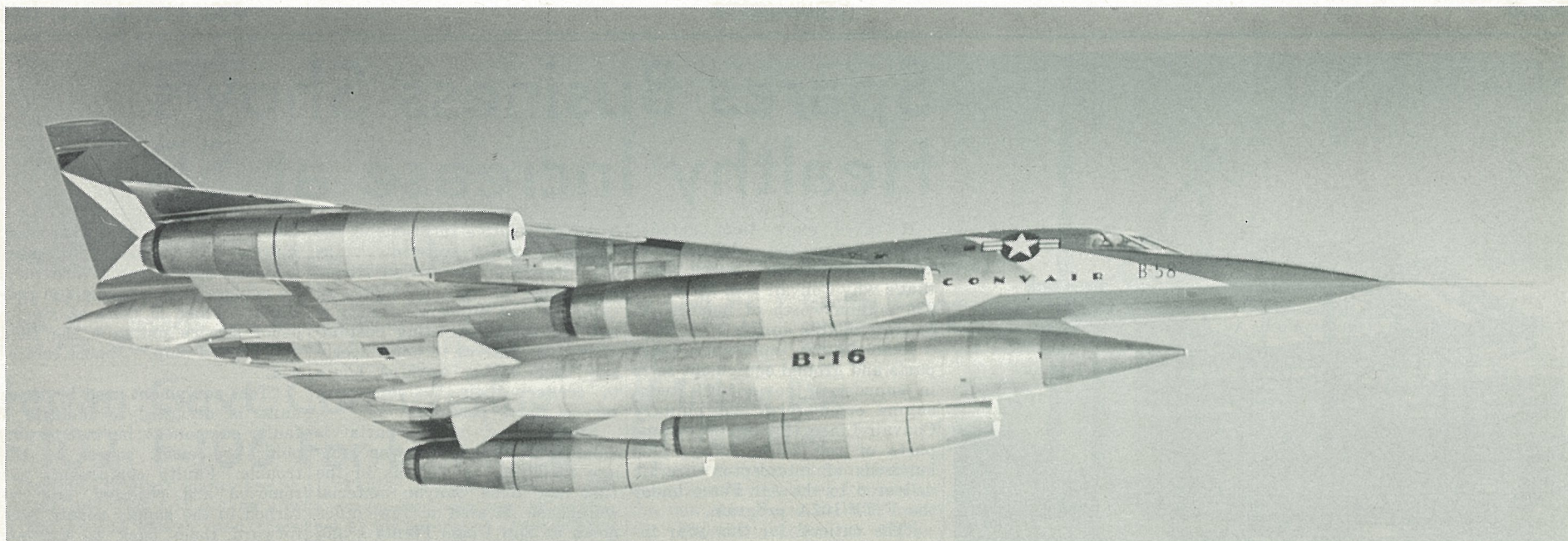
Ralph Wagner, chief of training at Convair Fort Worth, will speak on "Training in the Jet Age" before the aircraft special interest group at the annual conference of American Society of Training Directors May 4. The conference will be at the Sheraton-Park Hotel in Washington, D. C.

Clubmen and Ladies Will Dance Friday

The Bill White Orchestra will play for the annual Convair Fort Worth Management Club dance at Lake Worth Casino at 8 p.m. Friday (May 2).
The dance is sponsored by manufacturing control, Dept. 22. Ed Blaine is program chairman.
Next regular meeting of the club, May 23, also will be at the Casino. Frank Pace Jr., president of General Dynamics Corporation, will speak.



WHAT BRAND?—Convair Fort Worth employees can—and do—give blood of all types through CRA blood donor replacement program. At fountain is B. B. Bryan Jr., Dept. 7-2, whose blood is rare A-B (Neg.). Left to right are C. D. Lines, Dept. 24-3, O (Pos.); Eugene Paul, Dept. 24-1, A (Pos.); and E. C. Bellows, Dept. 82, B (Neg.).



ON EXHIBITION—Spectators from ground got no such up-close view of B-58 Hustler as this, but they did get good look last week when plane flew over Washington, D.C., as part of Armed Forces observance. Plane also was on static display at

Andrews AFB near the capital and will be on view at several other AFBs this weekend, including Carswell. At Edwards AFB in Antelope Valley B-58 will share spotlight with F-102s and F-106s May 18.



Published every other Wednesday by Convair, a Division of General Dynamics Corporation, for the benefit of Convair people everywhere.

Convairiety

Vol. 11, No. 10

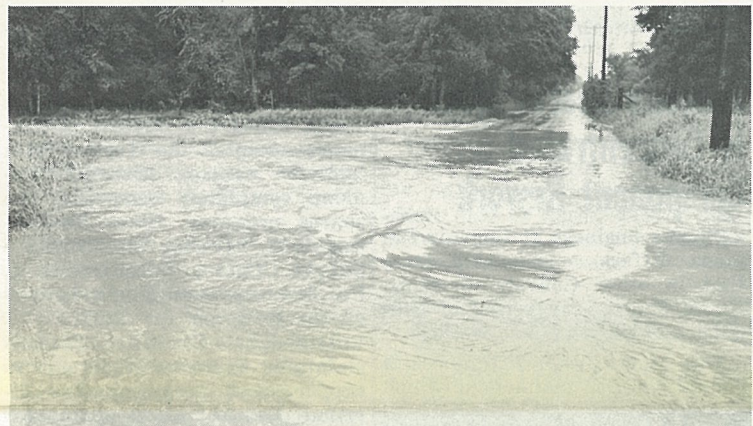
Wednesday, May 14, 1958

**Fort Worth and
Daingerfield**
EDITION

Fort Worth news office:
ext. 8245; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



WET CROSSING—Fort Worth's CRA area was isolated for several hours April 30 after torrential downpours sent waters swirling over Bryant-Irvin Road. Heavy rains brought precautions against a repeat of last year's floods in the city.

Armed Forces Show Saturday

Fort Worth's Carswell AFB will host a jet-age display of aircraft for the local Armed Forces Day celebration Saturday (May 17), and chances are Convair's supersonic B-58 Hustler bomber will get plenty of attention.

The B-58 will be parked along the Carswell ramp, along with its stable of chase planes. The group will include Convair's delta-wing F-102.

And, for a sentimental attraction, one of Carswell's last Convair-built B-36s will make an appearance. The base is being converted to all-jet bombers, and the last of the 10-engine B-36s will be gone after this month.

The Armed Forces Day open house begins at Carswell at 11 a.m. and will last until 4 p.m. The public is invited to attend the free observance, which will feature this year "the mighty force created as a power for peace."

The local Armed Forces Day program opens the evening of (Continued on Page 6)



GONE FISHIN'—FW Dept. 17's Aaron Murray didn't come back empty-handed after inspecting flooded highway near CRA area recently. He caught an eight-inch fish on Bryant-Irvin Road, by hand!

CRA Will Host U.S. Recreation Parley May 20

Convair Recreation Association will play host to the nation's industrial recreation leaders during the National Industrial Recreation Association conference May 18-21.

Up to 500 delegates are expected to register for the conference. Sessions will be at Hotel Texas, but one afternoon and night will draw conferees to the 83-acre Convair Recreation Area.

Convair Recreation Area will be closed all day next Tuesday (May 20) for the visit of delegates attending the National Industrial Recreation Association conference, according to Milt Stewart, CRA president. The area will reopen May 21.

T. G. Croft of Convair Fort Worth, NIRA vice president, said the huge CRA recreation area is a major reason why Fort Worth was selected for the conference. This will mark the first year that the meeting has ever been held farther south than Dayton, Ohio.

"We are pulling all stops to give them a real Texas welcome," Croft said.

On Tuesday (May 20), delegates will ride buses to Stove Foundry Road and Southwest Loop, where they will board stage coaches and covered wagons for a cross-country trek to CRA area. The Cowtown Posse will furnish out-riders.

Delegates will tour the area, see a boat club demonstration on the river, a casting demonstration, skeet shooting, and archery. They will inspect the Texas-size barbecue pit and the miniature "CRA Express" train.

A skating demonstration will be held on the patio. Inside, delegates will see a CRA art exhibition, and posters explaining each of CRA's 30 activities.

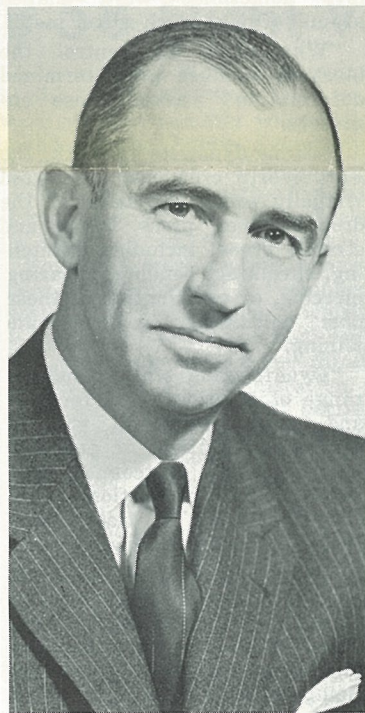
A chuck wagon dinner will be served in picnic area No. 1, followed by free train rides.

At 7:30 p.m., a wild west rodeo will be staged in the ranch area's decorated arena. A frontier party will be held in the clubhouse at 9 p.m., with recording artists Homer and Jethro for entertainment.

The clubhouse will be decorated in a western motif, with bales of hay scattered about for seats. NIRA conference co-chairmen are Croft and I. B. Hale.

Prior to the CRA visit, delegates will lunch at Ridglea (Continued on Page 6)

Full House Expected When Pace Discusses What Future Holds



SPEAKER—Frank Pace Jr., president of General Dynamics Corporation, will discuss company's future next week before Management Club audience.

Meeting to be Open To 'Members Only'

Attendance at the May meeting of Convair Management Club will be limited to members—in line with action of the club's Board of Control.

Members will be required to show National Management Association membership cards at the door.

Club President R. P. Curry said, however, that non-members eligible may still join the club by contacting W. M. Counts at ext. 8224. Those who sign up before the meeting will be eligible to attend.

Capacity attendance is expected when Frank Pace Jr., president of General Dynamics Corporation, speaks on "Where the Future Will Take Us" at the May meeting of the Convair Fort Worth Management Club.

The dinner meeting will be at Lake Worth Casino May 23. Social hour begins at 5:30 p.m., with dinner at 6:15 p.m. Reservations are \$2.50 per person.

Material and contracts departments are sponsors. T. J. Sullivan and S. E. G. Hillman are co-chairmen.

"Mr. Pace's topic is of vital concern to us all," Sullivan said. "So we are prepared for a capacity audience."

Pace, former Secretary of the Army, succeeded the late John Jay Hopkins as General Dynamics president on May 1, 1957.

Under his leadership, General Dynamics operations embrace six divisions and one subsidiary: Electric Boat, Stromberg-Carlson, General Atomic, Electro Dynamic, Liquid Carbonic, Convair, and Canadair Limited.

As Secretary of the Army from 1950 to 1953, Pace was responsible for the Army's rapid expansion to meet the Korean emergency. He joined the General Dynamics family in 1953.

"I am sure all club members will welcome the opportunity to get acquainted with a man of such stature," Hillman said.

Pace's talk is top feature of the club's "General Dynamics Day" session. Dick Curry, club president, said all members of the corporation's board of directors have been invited to attend.

"Several of the board members already have accepted the invitation," Curry said. "We are extremely fortunate in having both the corporation president and these board members with us."

August C. Esenwein, Convair Fort Worth manager, will introduce Pace.

14-Year-Old Spells 'Saponaceous' and Wins Trip to Capital in National Spelling Bee

Fourteen-year-old Lani Presswood bests his competition because of an indigenous talent that enables him to remember the letters—and the correct order of the letters—in such items as saponaceous, onomatopoeic and juxtaposition.

Gobbledygook, yes. But no more so than Lani has been putting up with lately.

The son of N. A. Presswood, Dept. 6-4, Lani will represent Tarrant County in the National Spelling Bee in Washington, D. C. in June. He earned the trip

by defeating 127 other contestants in the Tarrant County Spelling Bee. In the county finals he correctly spelled 34 words as other contestants fell one-by-one. He clinched the crown by spelling "genealogy" and "repertoire" in the final minutes of the seven-hour bee.

Other words he mastered included "plenipotentiary" and "proselytes."

Both Mr. and Mrs. Presswood were Inter-Scholastic League champs during their school days.

Two Leading Polytech Students Chosen For FW Scholarships

Polytechnic High School monopolized this year's Convair Sons scholarship competition at Fort Worth. Both winners are from the East Side school.

They are: Sidney Lowe Waynick, 18, son of D. B. Waynick of Dept. 77; and Raymond John

Schiltz Jr., 16, son of R. J. Schiltz of Dept. 24-1. The boys were selected from 44 applicants.

The scholarships, which will pay full tuition and \$250 a year to each boy, were presented by August C. Esenwein, division (Continued on Page 6)



BOOM!—Spray shoots up as dynamite charge goes off in "shooting basin" and precise part is formed from metal blank, in an instant.

Underwater Explosions Forming Parts at FW

Stick a firecracker in a tin can—light the fuse—and you wind up with a deformed can. Mischievous kids have done it for years.

Convair Fort Worth is now doing much the same thing in an operation called "Dynaforming." Only all tests are conducted to adhere strictly to safe work practices, with Convair safety engineers keeping close watch. As a result, no accidents, near accidents, or misfires have occurred.

Dynaforming is simply the use of explosive charges to form metal into desired shapes. A Convair Fort Worth manufacturing research and development crew has conducted hundreds of tests to determine the exact amount of dynamite needed to accomplish a given job on a specific metal.

Present tests may lead to possible future production operations.

Dynaforming, which does things with dynamite that a machine can't begin to duplicate, is based on knowledge gained from wartime explosions when ship designers studied underwater blasts to

learn about damage from mines and torpedoes.

Manufacturing research engineers have noted that these violent wartime explosions sometimes produced improbable results. Some metals were damaged (deformed) well beyond recognized elongation, and tough alloys sometimes were shaped around or over much softer metal.

"Why can't we control the blast to produce pre-determined deformation?" asked these engineers.

Putting dynamite to work, the Fort Worth crew has duplicated virtually every operation of the drop hammer, press, brake, and stretch press, including stretching, shrinking, bending, shearing, piercing, or combination of these, plus embossing, inlaying and joining.

"Dynaforming will extend the range of existing press facilities and, more important, will increase the latitude of engineering design by overcoming some now common production limitations," said D. W. Cole, manufacturing research engineer.

He explained that all blasts are set off under water, with the metal to be formed placed over a "tool," or basic work form, at the bottom of a water-filled tank. Being heavier than air, water gives a more concentrated application of the shock waves following a blast. It also helps muffle the sound.

R. W. Wesley, manufacturing research engineer and a geophysicist, evaluates results of each test to determine the reaction of shock waves.

Actual blasts are handled by World War II diver and underwater demolition man George Veatch, an expert blaster with over 20 years experience with explosives. Not a Convair employee, he assists in the tests under a contract with Convair.

All Dynaform operations are conducted in a fenced-off area on the Convair Fort Worth reservation. All that is needed are the explosive charges, raw material, tool forms, and a shooting basin.

Cole pointed out that the entire Gulf of Mexico could be used as a shooting basin if they had a tool large enough. However, in the hundreds of tests run thus far, the crew uses dynamite measured in grams and ounces.

The Dynaform crew thinks the process will be an important step in the evolution of production toward the ideal in missiles and aircraft: "made in two pieces and glued down the middle."

*Copyright 1957, General Dynamics Corporation.

Spares Business Shows Healthy Increase at SD

It takes more than aerodynamic design and pilot skill to keep an airplane flying, and that's why Convair San Diego did \$86 million worth of business in aircraft spares during 1957.

That figure represents spare parts and ground equipment sales in support of some 1,039 twin-engine commercial and military Convair-Liners flying in various parts of the world today, plus hundreds of interceptor aircraft delivered to the Air Force under the F/TF-102A program.

"The outlook for this year indicates sales in excess of \$100 million," stated John "Scotty" Doig, chief, service parts.

Production relationship between Convair aircraft sold and the spare parts and equipment required to extend their operational life shows that for every 100 interceptors purchased, the equivalent dollar value of 20 more is represented by spares sold.

For two-engine aircraft, every 100 actual airplanes purchased requires the production of 15 more equivalent airplanes in spares. That same ratio is expected to apply in support of the Convair 880 commercial jet transport.

In dollar volume, the sale of Convair spares has increased almost seven times during the past four years.

The spares sales program is divided into military spares, commercial spares, and the sale of ground support equipment, military training units, and modification kits.

"One major item in the support program is sale of such publications as flight handbooks, overhaul and maintenance manuals, and parts catalogs," said J. J. Alkazin, manager, customer service. "From slightly less than \$3½ million in 1954, dollar volume of support publications sales increased to nearly \$7 million in 1957."

Publications required to support the entire F/TF-102A program would reach a theoretical 9,688-foot height, 6½ times higher than the Empire State building.

Administrative functions of the spares program are centered at 3250 Fordham St. in San Diego. Advantage of this off-plant location is that military security is not required, permitting customer representatives to enter freely any time during working hours to conduct their business with service parts personnel.

Stocking of spare parts is handled in already existing storage facilities, as well as in the vast new Rose Canyon material warehouse located a few miles north of San Diego Plants 1 and 2. Unified warehousing, packaging and shipping facilities permit ordered parts to be drawn from stock, dollied directly into fully equipped shops for packaging, then wheeled to adjoining shipping docks accessible to all primary forms of transportation.

Prompt processing of overseas orders is provided by a special export section. This group can arrange for inland, ocean and air shipments to overseas ports of debarkation. It handles insurance coverage, and makes provisions for clearance through U. S. Customs. It obtains Department of State export licenses, and takes care of other documentation pertaining to the export of Convair spare parts.

Pomona Spares Work Is Concentrated on Component Rework

Spares business at Convair Pomona differs considerably from that in other Convair divisions. F. M. Shulze, supervisor of contract spares, said last week.

One of the basic differences is caused by the manner in which the products of the different divisions are used, he added. A need for spare parts in aircraft is created by the wear and tear of daily usage, accidental damage, etc., and the parts are normally supplied to the customer who makes the necessary repairs at his own facilities.

"On the other hand, Terrier missiles are fired only once and

their parts do not wear out. However, the one flight must have a high degree of accuracy. To achieve this, periodic and pre-flight testing is done at supply depot service units, in the field and aboard ship," Shulze continued.

"Test equipment used by these units is designed to indicate a faulty component, but not to pinpoint the exact source of the trouble. Faulty components are removed and replaced, and returned to the supply depots, who forward them back to Convair Pomona where the necessary repairs, replacements or modifications are made. Following rework in the production departments at Convair Pomona, the component is returned to the supply depot for re-issue."

Convair Pomona also provides spares for equipment designed for missile testing, missile handling, and training.

"A considerable portion of the Pomona spares operation deals with high-value component repair. The Pomona Division is among the leaders in experience in this field because of the fact that we are supporting missiles manufactured on a production basis," Shulze said.

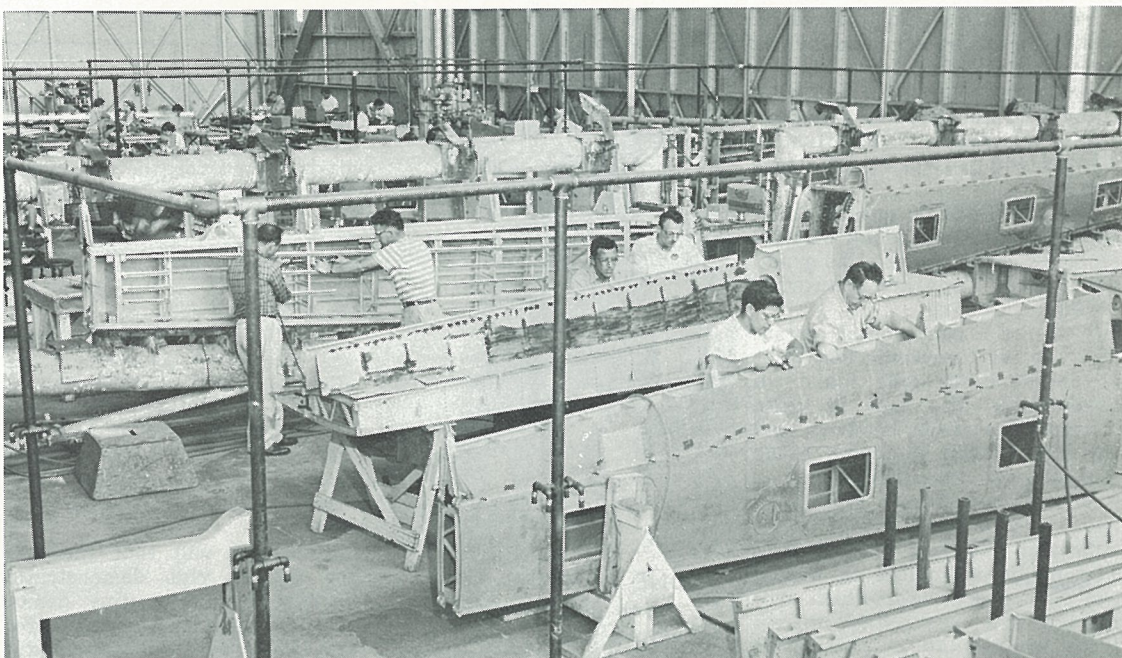
Convair Pomona has been in the spares business for approximately six years, starting in 1952 with the development contract stage. Until the Bureau of Ordnance accepted the Terrier as a tactical weapon, Convair Pomona completely controlled the spares program. Since September, 1954, however the Ordnance Supply Office at Mechanicsburg, Pa., has been managing inventory of the program for BuOrd.

Although Convair Pomona maintains a spares stockroom to support test programs, the division does not stock spares for production missiles. A full range of spares is maintained, however, at major supply depots.

All work in connection with field service action at Pomona, with the exception of technical writing and the actual fabrication of parts, is done by the contract spares section of the contracts department.



BLASTERS—At top, George Veatch, master blaster, holds dynamite charge, neatly wrapped in ball. Below, D. W. Cole, manufacturing research engineer, shows perfect part formed by Dynaforming blast.



SPARES TO SPARE—Customer orders for 240 wing outer panels are filled at Convair SD Plant 1 as part of continuous spares business supporting Convair-built aircraft. Such items as vertical and horizontal stabilizers, flaps, ailerons, elevators, leading edges, etc., are constructed to order, along with extra parts which go in stock.

Canadair Places Order With Convair For 90,000 Manhours in Spares

Largest spares inventory ever held by Convair for support of its two-engine aircraft was announced this week by J. J. Alkazin, manager of the Convair San Diego customer service department.

He stated that all engineering, maintenance and support activities for present operators, as well as those who may purchase such aircraft in the future from present owners, will continue to be handled at Convair San Diego.

This includes both in-plant spares and service facilities in addition to the world-wide field service organization.

Alkazin's announcement followed a report that Convair SD has received orders from Canadair, Ltd., of Montreal for airframe assemblies whose production will require about 90,000 manhours.

Canadair, a subsidiary of General Dynamics Corporation, is beginning production of the CL-66,

an RCAF turboprop transport version of the Convair 440. The airplane will also be produced by Canadair as a civilian transport.

Initial order for airframe assemblies to Convair is for ten ship sets and two sets of spares.

Convair SD has retained detailed tooling for high usage spares, including all control surfaces and leading edges, which it will manufacture for Canadair as well as for Convair 240, 340, and 440 operators.



IN FORMATION—Twenty-one F-102As from Kinross AFB treated Sault Ste. Marie, Mich., residents to a full-dress fly-over recently on a visit of 438th FIS to Truax AFB, Wis. Total is one short of number 82nd FIS of Travis AFB put in air

together (Convairity, Feb. 5, 1958). In all, however, 438th had 25 F/TF-102As in commission, with several remaining on alert for cross-country mission. Not often are so many F-102s seen in air formation at once.

Japan Govt. Considering F-102, F-106 For Defense

Japanese aircraft plants are as modern and well laid out as any in the United States, and their workmen are capable of building anything we can with the possible exception of large forgings and special equipment.

That's the report brought back by W. C. "Bill" Keller, manager, SD customer relations, who returned to his desk April 23 after a nine-week visit in Japan. Purpose of the trip was to discuss air defense problems and requirements with Japanese government officials, and interest them in eventual acquisition of F-102 and F-106 aircraft.

Keller was joined by A. P. Higgins, SD Plant 2 works manager, during the final two weeks of his stay. Both held extensive conferences with Air Self Defense Force and Defense Agency officials, and also inspected Japanese aircraft plants and facilities.

"My feeling is that the Japanese government may quite possibly acquire some of our interceptors in the future," said Keller.

The aircraft industry in Japan is concentrated mainly in the Nagoya and Gifu areas, with another plant in the Osaka-Kobe area, and a fourth major facility located at Utzunomiya.

"In comparison with pre-World War II products," stated Keller, "post-war Japanese industry is manufacturing products of first-line quality." As examples, he cited optics, electronics, textiles, heavy industrial commodities, and most categories of consumer goods.

This was Keller's first trip to Nippon land.

"The Japanese have always been noted for their diligence and propensity for hard work," Keller remarked. "This probably accounts for the fact that it's extremely difficult to find any trace today of war damage. It also indicates to me that there's very little chance of communism ever gaining ground there."

Commenting on the language, the Convair emissary stated that the main difficulty for Americans is their inability to connect any phonetic sound to written Japanese. In contrast, although many Japanese cannot speak our language or comprehend spoken English, the majority can read and understand written English.

"That's probably because the average Japanese has an alphabet at his command of more than 2,000 characters, including the 26 letters of our own alphabet," explained Keller. He added that the country has a 98 per cent literacy rate.

Evidence of Western influence on Japanese custom and thought is reflected in their dress. Keller observed that the traditional kimono is now worn in public by less than 25 per cent of the women, and by only about 2 per cent of the men.

Other impressions gained by Keller are: Japanese trains, clean and of modern design, are among the most punctual in the world.

Highways are not good, but are being constantly improved.

A ride in a Tokyo taxi is one of the most hair-raising experiences a human being can undergo. Even the city's natives refer to the cab drivers as the "Kamikaze Corps."

Friendliness and courtesy are evident in all parts of the country. It is possible to travel anywhere, day or night, with a complete sense of security, and be assisted at every turn.

AF Training Base Gets First Atlas

The first Atlas intercontinental ballistic missile slated for use at the new Air Force ballistic missile training center at Cooke AFB, Calif. arrived on schedule last week, following an overland trek from San Diego.

Heavily shrouded, the missile left San Diego Division's Plant 1 May 7, overnighing near San Clemente, then proceeded on to the new center the following day. It was accompanied by the usual convoy of support vehicles and security forces.

Cooke AFB is northwest of Los Angeles on the coast near the town of Lompoc. It is headquarters for the First Missile Division, a unit of the Strategic Air Command.

Kenneth Thornton Of Pomona Dies

Funeral service was conducted April 25 for Kenneth R. Thornton, Dept. 72 at Convair Pomona, who died April 22.

Thornton, who had been with Convair since October, 1956, was a native of Illinois and was 60 years of age. His survivors include his wife, Mrs. Alma Adeline Thornton of Claremont.



TERRIER DISPLAY—A portion of some 600 students who attend recent Navy-sponsored rocket safety program in Norfolk, Va., group around a Terrier missile. Guided missile officer of USS Canberra explained capabilities of Terrier to amateur rocketeers.—U.S. Navy Photo.

600 Students View Terrier Missile During Navy-Pioneered Rocket Safety Program

Leading educators and approximately 600 high school students from schools in the area gathered in Norfolk, Va., recently for what is believed to be the first

rocket safety program of its type ever presented in the U. S.

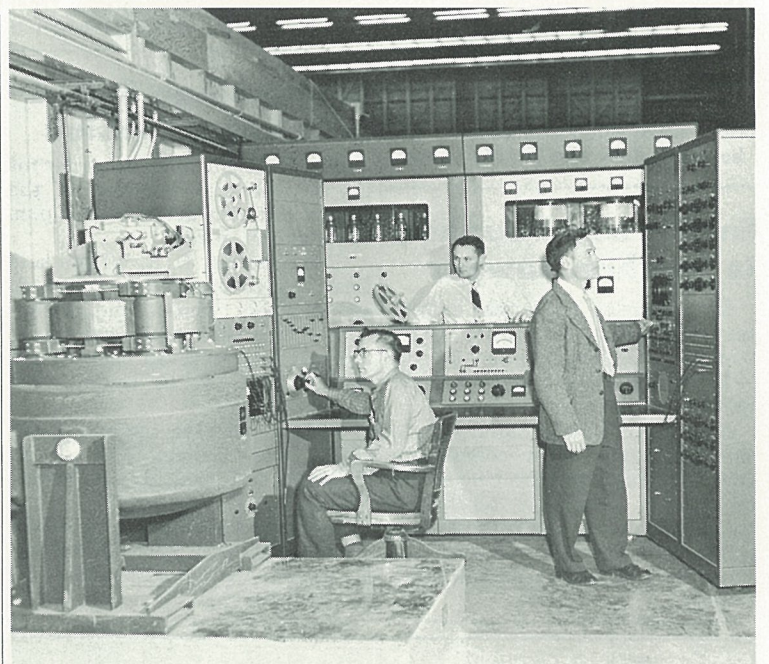
The program, pioneered by RADM. Lewis S. Parks, USN, Commander Cruiser Force, U. S. Atlantic Fleet, and conducted in the Norfolk Naval Station theater, was presented by rocket experts from RADM. Parks' staff, the Special Weapons School of the Atlantic Fleet Training Command, and the guided missile cruiser USS Boston.

The program included presentations on ballistics, guidance, propulsion, rocket safety and astronautics. Following the two-hour program, the students toured the guided missile cruiser USS Canberra and viewed a display of the Convair Pomona-built Terrier surface-to-air missile and the Navy's Regulus surface-to-surface missile.

C. M. Davis to Address AIEE Spring Meeting

C. M. Davis of Convair SD electrical design will speak on 400-cycle power sources for aircraft and missile electronic equipment at the last spring meeting of the AIEE May 22.

Interested Convair people are invited to attend the 7:30 p.m. meeting in the lower conference room of the U. S. Navy Electronic Lab's main building.



BACH OR ROCK?—New vibration machine at Convair Fort Worth duplicates tape-recorded vibrations taken from Convair's supersonic B-58. It can play music, too! Left to right are W. R. Gidley, Jim Green, and J. D. Stephens. System is used to insure components can "take it."

'Hi-Fi' System Plays Back B-58 Flight Vibration

Convair Fort Worth employees in the engineering test lab area were startled recently when rich sounds of the Austin Symphony Orchestra filled the lab area.

The tone was superb—just as if coming from a fine high fidelity system which, in fact, it was.

Engineers were testing a new piece of equipment, a "complex motion vibration system," which in reality is like a huge hi-fi set. The music was a tape recording used to check out its operation.

The new equipment will insure in the future that components for Convair's supersonic B-58 will meet high performance standards. The vibration system converts recorded sound into exact mechanical vibrations.

At certain amplitudes, the system's "speaker," or shaker, disturbs the air enough to make the sound audible—such as the playback of the symphony orchestra.

J. S. Green, test engineer, said vibrations encountered in piston-driven aircraft are predominantly sinusoidal, or a simple harmonic motion. Components are fairly easy to check.

"In high speed aircraft, however," Green said, "vibration caused by noise or shock waves is unpredictable. Vibrations are

of a random nature."

The new vibration equipment can reproduce either sinusoidal or random vibration, or a mixture of both.

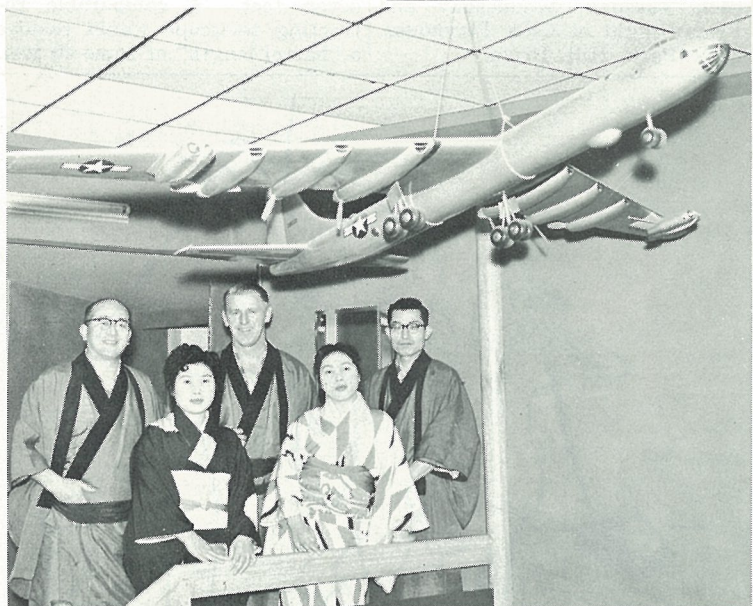
To test a component for the B-58, for instance, an in-flight recording will be made. The recording will be "played back" on the equipment, which excites the shaker with exactly the same motions the plane encounters in the air.

The part being tested is mounted on the shaker. It is considered reliable only after it has withstood an amplified test.

Most home hi-fi sets are rated below 50 watts. The power amplifier on Convair's vibration equipment is rated at 20,000 watts. The shaker is rated at 3,500 pounds of force.

"The entire system is very similar to a giant hi-fi set," Green said. "In hi-fi, people want an exact reproduction of the music put into it. This equipment does the same thing, except the output is geared to mechanical vibration."

The vibration system was designed by Ling Electronics Company. John D. L. Davis, group engineer, is supervising operation of the equipment.



EAST-WEST REUNION—When W. C. Keller of Convair SD visited Atami, Japan, recently he met several old friends, including a B-36! He is shown at Hotel Amanoya with Saburo Tsuchihashi, left, manager of Japanese Aircraft and Maintenance, and Henry Otsubo, also with JAMCO, both well known in San Diego from having visited there. B-36 model was built by members of Tokyo model club and presented to hotel.



"I sleep like a log now . . . but I keep dreamin' of sheep jumpin' over the Department of Revenue . . ."

Art Works Hung At CRA Clubhouse

An exhibition of the paintings of Convair artists now hangs in the CRA clubhouse, and all employees are invited to view the show.

Ed D. Weimer, commissioner, said winner of the show will receive an oil painting set, or art supplies in lieu of the set. The exhibition will hang throughout May.

Employees may vote on paintings at a ballot box placed in the clubhouse. Each employee is allowed one vote for the entire show. Winner will be decided by the popular vote.

Employee's Daughter Is Teacher, Lawyer

Mrs. Charles J. Harris, daughter of H. M. Johnson of Dept. 24-6, is a fully accredited lawyer—but now teaches school in Michigan.

Mrs. Harris was admitted to the Texas Bar after completing school at TCU and the University of Texas. She now teaches a third grade class in Grosse Pointe Public Schools while she works on a master's degree at Wayne State College.

The Passing Years...

Fort Worth

The following service emblems are due during the period May 16 through May 31:

Fifteen-year: Dept. 3, M. S. Williams; Dept. 4, C. Dannenfelser, R. G. Hankins; Dept. 6, M. L. Brogotti, M. E. Clarke, R. A. Dvorak, E. V. Gish, G. B. Henry, E. J. Luedtke, R. B. Stangl; Dept. 14, V. S. Owens; Dept. 20, P. C. Keahey; Dept. 22, W. K. Deaton, R. W. Hooper, T. F. McAden, N. E. Tatum, C. B. McCarthy, W. J. Shurbet; Dept. 24, E. Cunha, C. D. Lines; Dept. 29, W. F. Arwine.

Dept. 31, A. C. Cain, A. J. Quinn, H. Schilling, G. J. Thomas; Dept. 32, R. Grissom, E. B. Hill, W. H. Moore; Dept. 36, W. O. Hudler, F. R. Harverson.

Dept. 46, C. E. Warr; Dept. 48, R. M. Hale, O. E. Hoyer; Dept. 54, T. L. Goodwin, M. E. Heffley; Dept. 55, R. O. Fancher; Dept. 58, A. E. Cloninger.

Dept. 59, R. E. Dobbs, C. E. Groomer; Dept. 62, C. A. May; Dept. 64, H. V. Bordovsky, J. I. Coulter, E. Hood, G. A. Lee, N. L. Marr, B. N. McKinney, L. E. Mimms, R. M. Webb, H. C. Worthey.

Dept. 65, T. R. Mitchell, E. A. Nicholson, A. R. Traylor; Dept. 82, T. Lankford, T. Myers; Dept. 85, G. S. Green; Dept. 94, C. B. Teter; Dept. 96, T. M. Sheffield.

Ten-year: Dept. 3, J. D. Tate; Dept. 4, E. O. Jordan, J. S. Montgomery; Dept. 6, N. Van Tassel Jr.; Dept. 7, F. J. Balik; Dept. 7, E. H. Bowman.

Dept. 10, J. A. Hazlewood; Dept. 14, A. J. Rose; Dept. 15, O. Knight; Dept. 17, D. L. Harper; Dept. 20, M. F. Berry; Dept. 22, M. E. Cochran, J. C. Osborne; Dept. 24, B. L. Barker, R. H. Stafford; C. M. Walker; Dept. 27, R. P. Beasley; Dept. 28, F. Spearman.

Dept. 29, F. L. Gonsior, V. L. Moore, A. J. Nickell, R. D. Thompson; Dept. 31, M. Holland; Dept. 42, L. S. Admire; Dept. 46, J. F. Ashlock, T. R. Bagley, A. A. Danz, R. L. Gilley, R. B. Glidewell Jr., R. A. Lee, A. D. Martinets, J. T. Moody, R. E. Neil, J. C. Peoples, J. A. Rampley, W. E. Rickman, B. J. Sargent, W. R. Schulz, F. F. Taylor, H. O. Wreay.

Dept. 52, M. R. Akins; Dept. 54, W. A. Johnson, C. W. Martin; Dept. 55, M. H. Roberson; Dept. 56, J. L. Head; Dept. 57, D. D. Allison.

Dept. 58, W. H. Grace; Dept. 59, I. E. Smallwood; Dept. 64, G. L. Frazier, R. J. Grana, H. C. McMahon, L. M. Walters; Dept. 65, R. P. Williams.

Dept. 73, C. F. Hall, B. A. Ryan; Dept. 74, J. F. Atturio, R. S. Edington, G. Smith; Dept. 75, J. N. Kimbrough, J. W. Simpson, M. C. Smith, S. W. Stewart, A. L. Vrba, B. L. Wood.

Dept. 77, B. L. Blackburn, G. C. Easley, M. E. Mowry, H. L. Thompson.

Daingerfield

Fifteen-year: L. A. Yaggi, photography supervisor.

Ten-year: Dept. 3, F. J. White.

Log Book Entries Promotions Awards

Promotions to and within supervision, professional and administrative effective April 28 are:

Dept. 6: to design engineer, V. W. Henson, D. K. White, R. L. Pace, E. D. Prejean, J. B. Watson, R. W. Wooten, B. R. Nicely; to nuclear engineer, H. G. Carter Jr., D. M. Cook, J. H. Long, R. V. Monzingo; to senior nuclear engineer, T. E. Peace, M. B. Wells; to aerophysics engineer, B. J. Summers; to senior aerophysics engineer, J. W. Rankin; to aerodynamics group engineer, P. E. Jensen Jr.; to test engineer, J. R. Baker, L. J. Millsaps, R. G. Ward Jr.; to flight test engineer, D. R. Carlin Jr., H. O. Gaffin Jr., F. L. Harvey, E. L. Johnson, B. B. Lambert, J. A. Morrison; to senior flight test engineer, F. C. Hermann, E. J. Kaspar Jr.; to propulsion engineer, R. G. Brown, R. A. Thompson; to structure engineer, W. L. Hastings, J. E. Hickie Sr.; to senior structure engineer, W. E. McLaughlin, A. B. Powell, W. C. Rister; to weight coordinator, J. L. Brumbelow; to associate engineer, B. G. Rutherford; to administrative assistant, J. T. Sharpe; to engineering illustrator, H. G. Herod.

Dept. 7: to development liaison man, E. C. Burney; Dept. 8: to manufacturing engineer, D. E. Flanders; Dept. 19: to senior EDP programmer, H. W. Welborn.

Dept. 21: to production change analyst, D. E. McCarty; Dept. 27: to outside inspection representative, N. E. Pryor; to quality control engineer, H. L. Wernshing.

Dept. 28: to process analyst, R. H. Hartley; Dept. 29: to general supervisor, A. R. Carson; Dept. 81: to assistant foreman, C. A. Little, C. McCune.

Dept. 82: to assistant foreman, W. D. Nichols; Dept. 85: to senior customer service engineer, B. F. Bailey Jr.

The following received Employee Suggestion awards totaling \$815.05 for the period ending April 22:

Dept. 6, H. H. Hagler Jr.; Dept. 25, D. L. Hurst, G. Carroll; Dept. 27, G. D. Ray, D. R. Williams, J. D. Dove, W. G. Jones, E. F. Havens.

Dept. 29, A. J. Sullivan; Dept. 30, H. T. Jernigan, H. E. Dikes, and former Dept. 30 employee, J. W. Bailey; Dept. 32, B. M. Riley, H. L. Wickliffe.

Dept. 33, W. T. Harris; Dept. 35, R. E. Cain Jr.; Dept. 36, E. O. Murphree; Dept. 55, M. L. Lowry; Dept. 57, W. R. Penninger, J. T. Allen.

Dept. 65, N. H. Savage, W. S. Turner; Dept. 73, R. T. Damico, H. Marr, M. Howard; Dept. 74, E. T. Tilley; Dept. 81, J. M. Bates Jr., G. H. Lee Jr.

Births

PASCHAL—Frank L. III, son, 7 lbs, 14 ozs., born April 25 to Mr. and Mrs. F. L. Paschal Jr., Dept. 3-5.

Deaths

SMITH—John L., 44, Dept. 64, died April 8. Survivors are his wife and daughter; his father, two brothers and two sisters.

Lost and Found

LOST—Man's wrist watch with stainless steel case and blue-gray leather band. Contact T. H. Choate, Dept. 64, ext. 2292 or at home, PE 7-7111.

★ Convairiety ★

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, news editor; Grayce Fath, Helen Pemberton.

FW Editorial Offices, Col. 71-C, Ext. 8245. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Recreation Area Participation Hits 1,000 a Day, Going Up

An average of 1,000 people a day now use Convair Recreation Area, and C. J. Hall, CRA manager, predicts a peak usage of about 2,500 people a day this summer.

That is about one and a half million people expected to pass through the gates at CRA the rest of this year!

The 80-acre recreation tract was far from completed when it

Stamp Bingo Slated In Tuesday Session

Stamp bingo will be order of the day at next meeting of the stamp and coin activity at 8 p.m. Tuesday (May 20).

Commissioner L. R. Wilson said first day covers will be given to all members who attend. Meanwhile, members with articles of interest for the scrap book should contact Mrs. F. C. Geiler, club librarian.

New committee members include Mrs. Geiler, Mrs. J. C. Jenkins, and Mrs. L. J. Robinson.

The 62nd annual meeting of the Texas Philatelic Association will be at the Hilton Hotel May 30, 31, and June 1.

opened in January, 1957 — but numerous projects completed since that time have increased facilities tremendously.

And the area still is not near completion!

Newest additions are the construction of two tinted tennis courts south of the clubhouse, and lighting of the junior baseball diamond. Both were due to be completed this week.

Also, first moves toward landscape and beautification are just beginning. Climbing roses have been planted along the fence line, shrubbery around the entrance, and the sweet smell of honeysuckle should soon pervade the Tiny Tot area.

Like many of the other projects in the area, employees will donate time and effort in the beautification project.

The volunteer aspect, in fact, is a "wonder" to outsiders who visit the recreation area. Joseph T. McNarney, former president of Convair, described it as "an amazing product of cooperative effort."

Only last month some 1,000 employees swarmed over the area in a giant clean-up, paint-up, fix-up effort.

Convair Recreation Association is governed by the Employees' Operating Council, which is made up of employees who serve as commissioners of the 30-odd activities.

M. A. "Milt" Stewart now serves his second term as president of the council. Hall is full-time business manager of CRA and divides his time between the area and the CRA office in the plant.

FW Men Scheduled At Metal Congress

E. W. Feddersen, chief of manufacturing research and development at Convair Fort Worth, was due to serve as session chairman during the Southwestern Metals Exposition and Congress in Dallas May 12-16.

The exposition is sponsored by the American Society for Metals, with the Society for Non-Destructive Testing also participating. E. R. Weiher, chief of process control at Convair Fort Worth, is program chairman.

New Class Slated For Square Dance

People with a yen to square dance are invited to sign for a new beginners class which starts May 29 at the CRA Clubhouse.

Ross Carney, commissioner, said cost of the 10-week course is \$3 per couple.

"It's a wonderful and economical way to learn to square dance," he said. "And there is no problem with baby sitters. Square dancers can bring the kids along and let them watch free movies."

Carney said people who register for the square dance course may attend monthly activity parties. A wiener roast and open air square dance session is on tap at 8:30 p.m. May 24 in CRA picnic area No. 1.

The Denton Playboys will play for the roast. Members should get tickets from Carney.

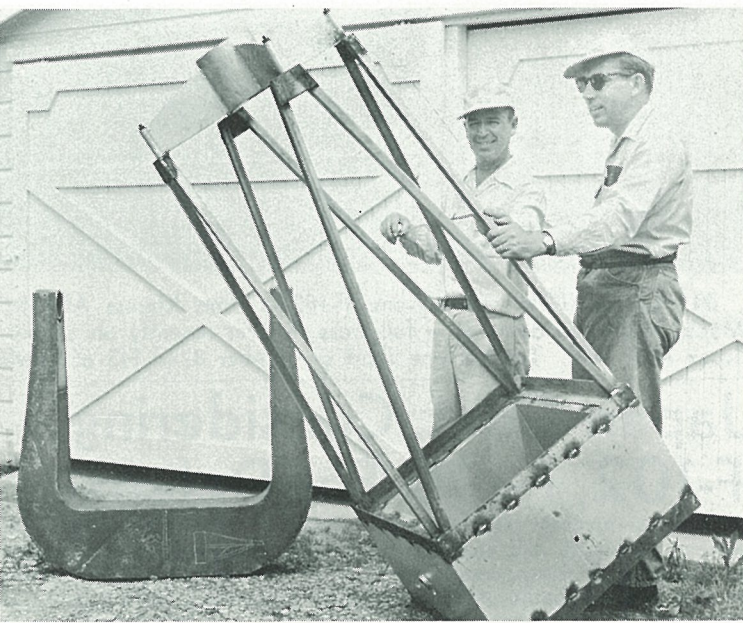
Yearly memberships in the activity still are available at \$7.50 per couple per year. They should be purchased at the CRA office.

Attendant on Duty In Tiny Tot Area

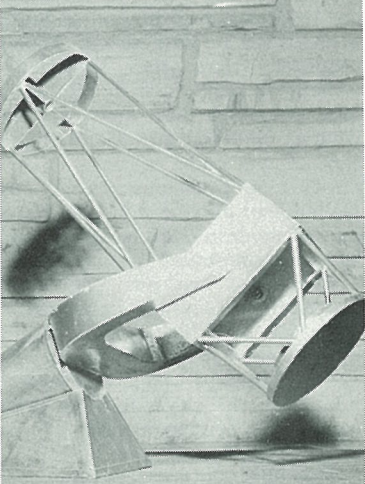
People attending functions in the CRA area are invited to leave the youngsters at the area's tiny tot playground and building, which opened for the first time this month.

The tot area is open each day from 9 a.m. to 11 p.m. Fee is 25 cents an hour for each child, with a maximum charge of 50 cents if there are more than two children in the same family.

An attendant is on duty to watch after the children.



PROGRESS—Bill Johnson, left, and Don Hennrick work on CRA's 19-inch telescope. Progress is excellent. Huge mirror blank is on order.



TARGET—New CRA scope will look like this. Will be fourth largest scope in state.

Bridge Players Try For Master Points

A master point bridge game for the morning session of the bridge club will be held at 9:30 a.m. May 21 at the CRA clubhouse, according to G. P. Anderson, commissioner.

Second shift employees and wives of all employees are urged to participate. Club members may bring guests.

Meanwhile, Mrs. Herman Ankenbruck, club president, said a beginners bridge class will be started during the day if enough people are interested. Sign up at the CRA office.

Also, the club plans a director's course for anyone who sponsors small bridge groups and for people who are interested in directing such events.

Players' Rehearse

CRA's Wing and Masque Players now are in rehearsals for a comedy, "A Hole in the Head." Rehearsal sessions begin at 8 p.m. each Tuesday, Wednesday and Friday night at CRA Playhouse, 2966 Park Hill Drive.

Garage Is Site Of Work on CRA's Scope

The garage at the home of Bill Johnson, Dept. 65, takes on a flurry of activity during week-ends these days. Johnson is host to CRA's amateur astronomers.

But they are not there for stargazing. The amateurs are engaged in a cooperative effort which will provide CRA with a huge 19-inch telescope. Replacement value when completed: \$15,000. Actual cost: less than \$1,000.

Art Gilligan, astronomy commissioner, said the exacting and ticklish job progresses remarkably fast. When the scope is completed early next fall, it will be the fourth largest in Texas.

"With it," said Norman Cole, a leading astronomer in this area, "CRA astronomers will see objects with the same clarity and detail as can be seen visually through the 200-inch telescope at Palomar."

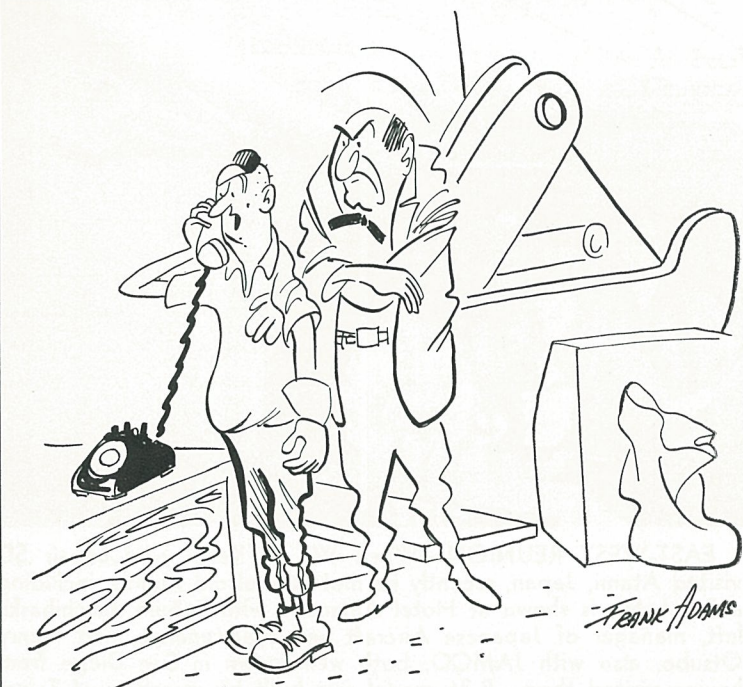
The Palomar scope, he said, has greater light-gathering power and can probe deeper into the heavens. It is invaluable in astro-photography, but for actual viewing, a 19-inch scope presents optimum clarity.

A 100-pound "blank" of pyrex glass now is being cast especially for the CRA scope by Corning Glass Company and will be delivered in about two months. Then begins the ticklish job of grinding the mirror. CRA's astronomers will tackle that job also.

"It will be a real attraction when finished," Gilligan said. "It certainly will be the largest scope in this section of the state."

"And it would probably have been impossible to build without Johnson's skill and enthusiasm. He is a master mechanic, and is satisfied with nothing less than perfection."

The Cassegrainian scope will have a "barrel length" of about seven feet. A comparable refracting telescope would require a "barrel length" of some 40 feet.



"Hang on a minute, will ya, Bill . . . I've got a little work to do."

Father-Son Team Takes Two Titles In Chess Meet

A father-son team delivered a first-place wallop to the 1958 chess tournament held at CRA area May 4. E. E. Grimm, Dept. 6-4, captured the plant crown, and his son, Ronald, 10, took first place in the children's division.

M. J. DeOblalioia, a novice player, captured the novice crown—and placed fifth in overall tournament results, and Mrs. R. W. Wooten won the women's championship.

In overall results, J. H. Sykes took second place, and B. J. Goss captured third spot.

Results in the youngster's division were, Grimm, first; Mike Wright, 14, son of A. A. Strobel, second; Kurt Ables, 13, son of V. Verrett, third; Billy Oberg, 11, son of Don Oberg, fourth; and Pat Wright, 11, son of A. A. Strobel, fifth.

R. W. Wooten, commissioner, points out that a number of novices participated in the tournament, which is an indication that club members are not "pros."

"We stress that anyone who plays chess, or who wants to learn to play the game, should attend our sessions," Wooten said.

"There is no membership or dues. We—men, women and children—just get together and play."

Next Sunday (May 18) the chess activity will start a chess ladder which will show player standings at all times. The ladder will be used to establish three classes for future tournaments. Play begins at 2 p.m.

Badminton Tourney Slated May 22, 29

The annual CRA badminton tournament will be held May 22 and 29 at the Stripling Junior High School gymnasium.

Commissioner Roy Harrison said entries should be turned in to the CRA office not later than May 19. No entry fee is required.

Events will be men's singles and doubles, women's singles and doubles, and mixed doubles. A minimum of four entries will be required in each event.

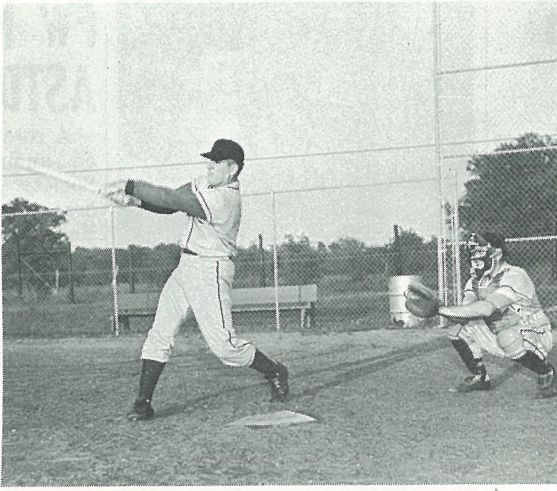
Gardeners Discuss Proposed By-Laws

A review of proposed by-laws of the garden club will be discussed at 7:45 p.m. May 27 during a meeting of the new CRA club at the Fort Worth Garden Center in Botanic Gardens.

R. S. Pluskey, president, said a guest speaker will talk on a timely subject. Refreshments will be served. It will be the club's first regular meeting since organization last month.



HUSTLE—Bobby Franks, right, watches from bat rack as members of CRA's major baseball team practice. At left are team's



pitchers, Tony Lopez, Jimmy Carter and W. H. Blakemore. Walt Hill, center picture, follows through after he gets piece of ball.



Archery Season Opens Tomorrow

CRA's spring archery activity begins at 7 p.m. tomorrow (May 15) and will continue each Thursday from 7 to 10 p.m. on CRA's lighted archery range at the area.

H. L. Lucas, commissioner, invites anyone interested to join the shoot. Instructions for beginners will be available, and a limited amount of equipment can be supplied.

The lighted range was completed late last year. It is the only range in the area available for night archery.

Shutterbugs Hold Special Color Event

Shutterbugs of CRA will hold a special Anscochrome color contest at the May 14 meeting, with prizes going to the three best slides.

"This is not the usual type of competition," said M. R. Rogers, commissioner. "It should prove to be very interesting." Guests are urged to attend.

Meanwhile, the club still searches for models for a "shooting session" June 11. Models will be rewarded with photographs taken by club members. Anyone interested should contact L. A. Douglas or O. T. Stoll, ext. 2249 or 7165.

A picnic is planned for club members and guests May 24. Details will be circulated in the Shutter Sheet.

Horseshoe Pitchers Try Luck May 24

A doubles horseshoe pitching tournament will be held at 11 a.m. May 24 at the CRA area to determine plant championship.

Finn Wahl, commissioner, said anyone who wants to compete should report to the tournament site prior to the starting time. Winners will receive awards.

There is no prior registration, and no registration fee. "Just show up with your partner," Wahl said.



Entries Due Tomorrow, Annual Table Tennis Clash Saturday

Plant table tennis titles will go on the line Saturday (May 17) as CRA's table tennis enthusiasts clash in the annual spring tournament.

Action begins at 1 p.m. in the CRA Clubhouse. Events will be men's and women's singles; men's and women's doubles; mixed doubles; junior singles (18 and under); senior singles (40 and over); and men's novice.

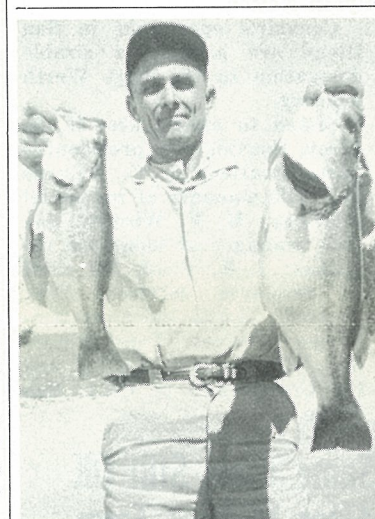
Trophies will be awarded winners and runners-up in each event. All entries must be in by 3 p.m. tomorrow (May 15). Entry fee is 50 cents, which is good for all events.

Tournament entries may be obtained from Jim Collin, Jim Burton, Bob Gault, and John Rangel of the tournament committee.

In the novice class, all entries will be screened by the tournament committee, which will rule on eligibility of individuals to play in the less-skilled bracket.

Favored players will include the mother-daughter Normans,

and defending single's champion Louie Lancer. Carolyn Norman recently won recognition by taking the national junior mixed doubles and women's singles consolation titles.



WHOPPER!—J. F. "Spot" Nunn, Dept. 46, hooked these at Lake Whitney, won 14-foot boat as **SECOND** prize. Fish at right is seven-pound black bass.

Golf Sweepstakes Is at Boaz May 24

An individual handicap golf sweepstakes will be held at Z. Boaz Golf Course May 24, and will lead up to the annual plant-wide championship tournament to be played on city courses in June.

L. H. Armstrong, commissioner, said anyone who needs to establish a handicap prior to the sweepstakes should submit three attested score cards to the CRA office.

All golfers are urged to play in the May sweepstakes event to help establish handicaps for the plantwide event. The major tournament decides plant championships in all categories.

For the title tournament, handicaps must be established prior to June 21 for eligibility.

CRA Volleyballers Train for Tourney

A Convaire team is now in training to participate in a mixed invitation volleyball tournament at Southside Recreation Building June 2. CRA league play ended May 5.

Teams invited to the tournament include River Oaks, YMCA, Carswell, Bridgeport, and Convaire.

At CRA area, supervised free volleyball play continues each Thursday, Saturday and Sunday in picnic area No. 1. Play begins at 7 p.m. on Thursdays, and at 3 p.m. on Saturdays and Sundays.

Peterson Pitches Perfect Contest

CRA's softball team in North Texas Industrial Recreation Association play boasts one of the hottest pitchers in softball anywhere.

Dean Peterson, the CRA hurler, struck out 18 men as he pitched a perfect game in downing a Hensley Field team.

"You can't expect anything better than perfection," remarked R. L. Evans, softball commissioner.

In Peterson's second contest, he allowed only one hit as CRA downed the Grand Prairie Naval Air Station, 3-0. The CRA team is defending champion in NTI-RA.

In other CRA softball, rain has played havoc with schedules among the 30 teams. Women have played only one game, with All Thumbs defeating Lady Hustlers.

Bombers and Missiles lead in CRA league play with three wins each. Props is in third with two wins and a loss, and traffic and Whitehorses have 1-1 records.

Expert Instructors Prescribe Programs For Weight Club

"With a planned program of exercise, you can develop your body in any way you desire . . ."

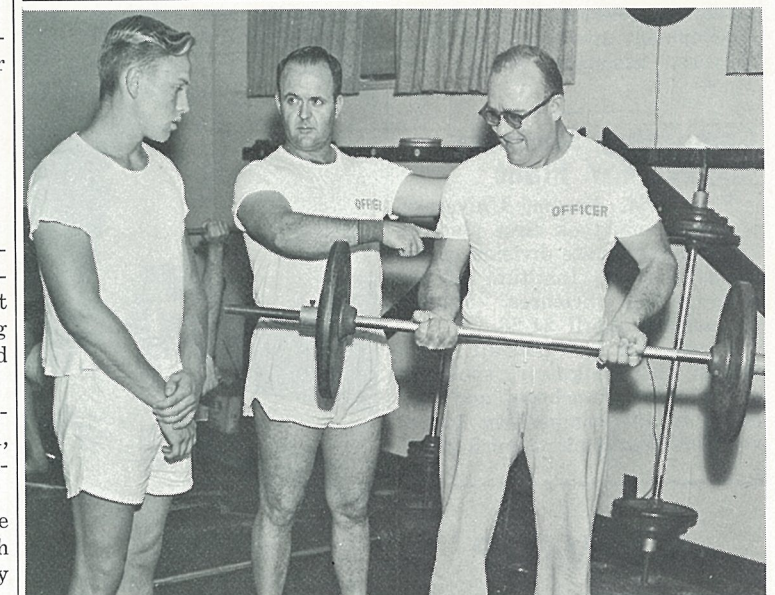
That is the advice given by Smokey Doyle and Ed Wright to new members of the CRA weight lifting club.

"You can take weight off," they explain. "You can put it on, build your physique, strengthen muscles or—most important—just stay healthy."

Doyle and Wright are volunteer instructors for the activity, and each is careful to prescribe a safe and exact program for the uninitiated.

"They are fine men, excellent instructors, and they have done a wonderful job for the activity," said H. L. Carter, commissioner.

Membership fee of \$1 per year includes use of all facilities in CRA's well equipped weight lifting room. The club now has 209 members.



BODY BUILDERS—Renne Hughes, left, son of J. B. Hughes of Dept. 24, gets expert instruction from weight lifting club officers, Ed Wright and Smokey Doyle.

Activities Calendar . . .

Fort Worth

ARCHERY—H. L. Lucas, commissioner, ext. 8283. Season starts May 15, shoot each Thursday 7-10 p.m., CRA area archery range.

ART—E. D. Weiner, commissioner, ext. 5205. Sign up for summer art class at CRA office.

ASTRONOMY—A. E. Gilligan, commissioner, ext. 2177. Lecture meeting May 21, 8:30 p.m., CRA Building.

BADMINTON—H. R. Harrison, Annex 1, ext. 32. Tournament May 22 and 29, Stripling Jr. High; entries until May 19, CRA office.

BOATING—B. T. Frost, commissioner, ext. 3160. Cruise May 24, Eagle Mountain Lake.

BRIDGE—G. P. Anderson, commissioner, ext. 3226. Master point game May 21, 9:30 a.m., CRA Building.

CAMERA—Miles Rogers, commissioner, ext. 2294. May 14, color slide contest, May 28, bi-monthly color contest, 7:30 p.m., CRA Building.

CHESS—R. W. Wooten, commissioner, Annex 2, ext. 302. Meeting May 18, 2 p.m., CRA Building.

DRAMA—E. S. Brown, commissioner, ext. 5242. Rehearsal Tuesday, Wednesday and Friday, 8-10 p.m., CRA Building, Park Hill Drive.

GARDEN CLUB—R. S. Pluskey, president, ext. 4191. Monthly meeting May 27, 7:45 p.m., Garden Center, Botanic Garden.

GOLF—Lawrence Armstrong, commissioner, ext. 8201. Sweepstakes May 24, Boaz Golf Course.

HORSESHOE PITCHING—Finn Wahl, commissioner, ext. 7289. Doubles tournament May 24, 11 a.m., CRA Building.

MOVIES—May 19-23, "He's a Cockeyed Wonder" with Mickey Rooney; May 26-29, "Captain John Smith and Pocahontas" (color) with Tony Dexter. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner, ext. 2186. Business meeting May 27, operating night May 15 and 22, 7:30 p.m.; novice code and theory class, Saturdays, 10:30 a.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

SOFTBALL—R. L. Evans, commissioner, ext. 5141. Games Tuesday through Friday, 7:30 and 9 p.m., CRA area.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each Thursday; beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

STAMP AND COIN—L. R. Wilson, commissioner, ext. 8225. Meeting May 20, 8 p.m., CRA Building.

TABLE TENNIS—C. G. Barton, commissioner, ext. 2294. Tournament May 17, 1 p.m., CRA Building.

TENNIS—Gene Records, commissioner, ext. 2164. Play Tuesdays and Thursdays, 6-9 p.m., Forest Park Courts.

VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 8131. Supervised free play Thursdays, 7 p.m., Saturdays and Sundays, 3 p.m., CRA area.

Daingerfield

BRIDGE—J. R. Nazzal, commissioner, ext. 481. Party bridge second and fourth Thursdays, 7:30 p.m. See bulletin board for location.

Take Care With Power-Mowers!

Convair Fort Worth employees are urged this month to observe proper safety habits when operating power lawn mowers.

F. R. Temple, chief of safety, said that recent rains will produce some of the finest Texas lawns in years, but that people who are careless with yard tools may sacrifice some fingers and toes and, possibly, their lives.

"A number of Convair people are hurt each year by power mowers," he said.

"An employee injured away from work is just as absent from his job as one who is hurt while working."

Temple lists some tips that may save serious injury:

Always mow in daylight, or by good artificial light. Always shut off and disconnect motor before moving mower from one level to another, or before clearing it of debris. Never lift or tip the mower while it is running.

Never leave a mower unattended while it is running, and never allow children or pets in the mowing area. Do not use mower when grass is wet or slippery. Be certain of your footing when mowing an incline.

Never refuel a mower while it is running or still hot from use. Check the mower regularly for worn parts, and never, never reach into the engine or blades while the motor is running.

Clubmen Canvassed For Speaker Team

Convair Fort Worth people who occasionally have a yen to make a speech are invited to sign up for a Management Club speakers' bureau now being organized.

Short speeches on many subjects will be welcome, including scientific, humorous or managerial talks. The talks should be about 20 minutes long.

"A group of such talkers can be a valuable asset to both the community and the company," said W. F. Sides, Dept. 4-1. "It will give us fine contact with local civic groups."

Volunteer speakers will appear before service club groups, church groups, and other community service organizations. All engagements will be handled by the Management Club. R. L. Root, Dept. 22-7, is chairman of the new bureau.

About 15 to 20 top notch speakers will make up the exclusive speakers' club. Applications should be made to Sides or Root.

FW Group Engineer On Safety Program

M. N. Lacy, Convair Fort Worth group engineer, will speak on "Maintenance Considerations in Design Phases" at the 34th Air Force-Industry flight safety conference, which will consider "Aircraft Accident Prevention and Squadron-Base Level Maintenance."

Other Convair Fort Worth people attending the conference will be W. W. Westcott, design safety engineer; R. W. McGuffee, development manager; and O. N. Shivers, assistant project engineer.

Competing Students Inspect FW Plant

Robert M. Nerem, University of Oklahoma, took first place in the undergraduate division of the Texas Section, Institute of the Aeronautical Sciences, student competition April 24-26.

Frank Davis, Convair Fort Worth chief engineer, spoke at a conference luncheon, and students in the competition toured the Fort Worth plant April 26.

Is It News?
Call Convairiety



HELPER—Dan Wall of service engineering publications illustrations group works on CRA posters for NIRA conference. His wife and daughter, Niki, are ready to help.

CRA Will Host Rec. Visitors Next Tuesday

(Continued from Page 1)
Country Club and will see a golf demonstration by Fort Worth's Byron Nelson.

Convair's operations in San Diego are sending a sizable delegation to the Fort Worth meeting.

Slated to attend are: R. H. Biron, Convair vice president—administration; D. C. Wilkens Jr., SD's manager of industrial relations; M. V. Wisdom, Astro's manager of industrial relations; J. K. Field, SD chief of employee services; Dick Mitchell, Astro chief of employee services; Tony Berardini, SD president of CRA; and Gil Crosthwaite of CRA, San Diego.

Same Tools Still OK After 15-Year Term

You don't need to talk to Mary Southerland of Dept. 36 about taking care of her tools. She still uses the same ones that were issued when she began work 15 years ago!

Her job is to stamp numbers on parts. Her tools are various stamping devices which either cut numbers into metal, or imprint numbers in ink.

All the stamps are original equipment.

"I stamped B-24 parts with these tools," she explained. "And I have stamped parts for every Fort Worth plane since then, and the tools are still good."

Only one concession has she made over the years. She accepted a new hammer. "The old one was too heavy," she explained.



SAME TOOLS—Mary Southerland of Dept. 36 at Convair Fort Worth uses same tools issued her 15 years ago. Only hammer is new.

FW Man Wins ASTD Honors

A rotating trophy to be awarded annually by the American Society of Training Directors bears the name of a Convair Fort Worth man, H. C. Anderson, first president of the local ASTD chapter.

The trophy is a gift of the local chapter to ASTD, and will be awarded each year to the nation's outstanding chapter. There are some 300 chapters in the national organization.

Ralph Wagner, chief of training at Convair Fort Worth, placed the trophy in circulation at ASTD's 14th annual conference in Washington, D. C., this month.

John Watson, local president, said the award honors Anderson, who was first president and first board chairman of the local chapter, and who was chairman of a national general conference committee which entered the national conference in Fort Worth last year. Anderson is a Convair Fort Worth personnel department training section assistant supervisor.

Local chapters in the trophy competition will be judged on increase in membership, club projects and member participation. The Fort Worth chapter has 52 members, 18 of them from Convair.

Armed Forces Day Show Saturday

(Continued from Page 1)
May 16 when Sinclair Armstrong, Assistant Secretary of the Navy, speaks at a Chamber of Commerce dinner.

Also scheduled for the Carswell program are the B-52, F-104, T-33. Other planes that may be present are the F-100, B-47, C-124, KC-135.

In case of inclement weather, the Carswell observance will be held the following day, May 18.

Meanwhile, Convair B-58s were due to participate in programs at Washington, D. C., San Antonio, Albuquerque, N. M., Eglin AFB, Fla., and Edwards AFB, Calif.

Ex-FW Clerk Chosen To Represent Texas

A former Convair Fort Worth employee, Mrs. Arthur Murrell of Henderson, will represent Texas in the "Mrs. America" contest at Fort Lauderdale, Fla., this month.

Mrs. Murrell was a clerk in Dept. 6-2 for three years until 1953, and her husband worked nights in Dept. 91 until his graduation from TCU and Southwestern Baptist Theological Seminary. He now is minister of the First Christian Church at Henderson. W. A. Murrell, foreman in Dept. 94, is the minister's brother.

Five Years Ago...

Following are brief excerpts from Convairiety of five years ago:

★ ★ ★

E. P. Wohl is appointed assistant to the president of Convair and G. T. Bovee elected corporation treasurer.

* * *

Thirtieth anniversary of Convair is marked at San Diego with an hour-long TV program.

* * *

Philippine Air Lines' Convair-Liner, Model 340, sets new speed record on first flight from Manila to Zamboanga.

* * *

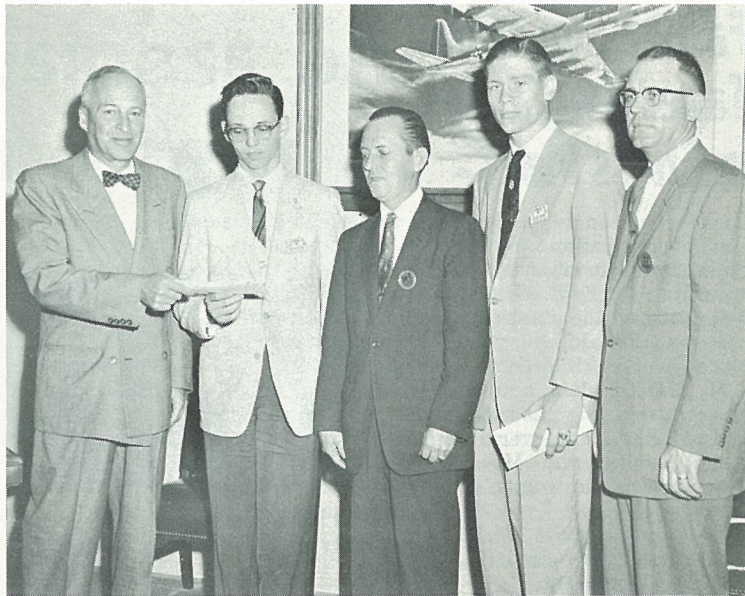
B-36 is lauded as "best bomber in the world" by Secretary of the Air Force Harold E. Talbott during Fort Worth visit.

* * *

Free chest X-rays are made available to Convair SD people.

* * *

Mary Pickford becomes Convair's "sweetheart" during FW appearance in behalf of U. S. Savings Bond drive.



TOP SONS—Division Manager August C. Esenwein, left, congratulates Convair Sons scholarship winners and Dads at Convair Fort Worth. Left to right are R. J. Schiltz Jr. and father, R. J. Schiltz; S. L. Waynick and father, D. B. Waynick.

Two Leading Polytech Students Chosen For FW Scholarships

(Continued from Page 1)
manager, last week at FW.

"Both boys are outstanding in every way," said J. B. Ellis, industrial relations engineering administrator. Both have straight A records through high school.

Waynick will study civil engineering at Texas Tech. He is a member of the National Honor Society, Bio-Chem-Phy, Library Club, Photography Club, and is an active worker in church. His father has been with Convair 14 years.

Schiltz said he will study chemical engineering at Rice Institute. He also is a member of the National Honor Society, Bio-Chem-Phy, and Chess Club, Bowling Club, Boy Scouts, and is among the top one per cent of

the nation's high school seniors. His father has been with Convair over nine years.

The awards are made by Convair each year to sons or stepsons of Convair employees. Scholarships can be applied at any accredited college or university toward a degree in engineering or an allied science.

In addition to the scholarships, Rice Institute (which is not supported by the state) will get a \$500 grant from Convair because Schiltz chose the school.

Nine other Convair sons are currently in school on Convair Sons scholarships.

Another Polytechnic High School student, D. G. Albertson, was one of four scholarship winners last year.

'Stuff it Yourself'

Collection of Mounted Game Overflows Garage Workshop

When game wardens blew the whistle to end the duck season in 1956, a Convair Fort Worth mockup builder and a group of friends counted their haul—35 birds of 15 different species.

That gave Robert Jones Jr. an idea. He had a yen for a collection and checked with a taxidermist, but learned this would cost more than he could afford.

"Why don't you mount them yourself?" the taxidermist asked. It was the start of a new hobby for Jones. With help of the professional taxidermist, Jones dug in. He signed for a correspondence course and converted his garage to a workshop.

The garage now is full of mounts ranging from fish to pheasants, from eagles to lions—and with a generous supply of the all-time favorite, deer.

Owls, hawks, coyotes, bobcats—all are there!

Jones' knowledge of mockup and model building aids him in pursuit of his taxidermic interests.

Exact papier-mache forms must be made for mounts. Skins are slipped over the forms and sewed on while wet. They dry taut with a life-like sheen.

The skins, of course, must be prepared with a deft hand. All operations are done in the Jones garage, which serves as both workshop and museum.

The garage, in fact, is a neighborhood attraction. Among the collection of mounts is a lion cub and the head of a lioness which were given to Jones after the animals died at the Fort Worth zoo.

Jones' brother, Billy, and Walter Stark of Dept. 82 often work in the shop.

"We plan a trip to British Columbia in 1961," Jones said. "I get a three-week vacation then, and I want some of that big game."

Of course, that will call for more mounts—and the Jones garage is full already. What then? "We'll start on the house!"



LIONESS—Robert Jones Jr. of Convair Fort Worth hangs mounted head of lioness among other trophies in garage. Jones mounted head after animal died at Fort Worth's Forest Park zoo.



Published every other Wednesday by Convair, a Division of General Dynamics Corporation, for the benefit of Convair people everywhere.

Convairiety

Vol. 11, No. 11

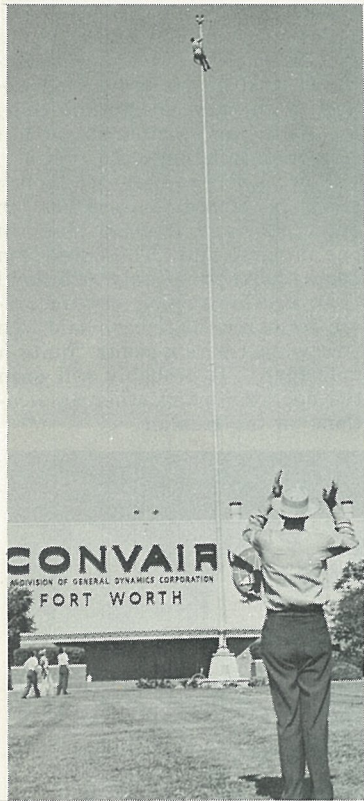
Wednesday, May 28, 1958

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS

**Fort Worth and
Daingerfield**
EDITION

Fort Worth news office:
ext. 8245; Daingerfield news
office: ext. 424



LAMPLIGHTER—Putting new light bulb atop flagpole at Convair Fort Worth is R. K. Bowlin of plant engineering.

Flag Pole Scaled By 'Lamplighter'

R. K. Bowlin of plant engineering at FW has made his semi-annual climb up Convair's 100-ft. flag pole in role of lamplighter.

It is a spectacular operation and involves running a stout cable through the flag pulleys. Riding in a boatswain's chair, Bowlin was pulled to the top by a truck attached to the other end of the cable.

B. T. Frost of plant engineering reported that two warning lights are located on top of the pole, but only one burns at any single time. When it burns out, the spare is used until conditions are favorable for an ascension. New bulbs are required about twice a year.

The trip up and down is completed in a matter of a few minutes, probably to the relief of the lamplighter.

Standards Engineer Wins NASC Election

P. A. Little, Convair Fort Worth standards engineer, is new vice chairman, western division, National Aircraft Standards Committee. He was elected in May at a national meeting of the group in New York City.

Little, a Convair employee 15 years, is in the materials process group.

Pace Tells Club B-58 Is 'Greatest Vehicle of Peace'

Frank Pace Jr., president of General Dynamics Corporation, told a capacity Convair Fort Worth Management Club audience Friday night that "the kind of thinking in Fort Worth is as good as any I have seen anywhere."

"You have built one of the greatest vehicles of peace in our time," he told the audience of 1,200. "With the B-58, you have added something to the free world arsenal of which we all can be proud."

Describing General Dynamics' defense business, Pace noted that the United States once was protected by two oceans.

"Now, for the first time in history," he said, "another nation has the capacity to destroy us."

"I believe we will be living with a cold—or hot—war for as long as you and I shall live. It puts a new focus on what we must do."

General Dynamics, Pace said, can offer a real service to the nation if it provides the country with the best possible defense at the lowest possible price.

He said Convair forms an essential ingredient of the corporation, and said, "I will be a disappointed man" if Convair is not the leader in the industry for the next decade.

Pace described the corporation as a "series of successive successes" conceived and generated by the late John Jay Hopkins, but emphasized that the corporation is "not tied to a single man or a single idea."

"The men who head the various divisions are extremely competent," he explained. "Any one of them could take my place."

He said efficiency of various divisions enables a general office force of only 110 people to oversee the activities of 93,000 employees in the General Dynamics family.

In a review of each of the divisions, Pace said the most outstanding group of scientists in the country—and possibly the world—is with General Atomics.

"I believe we will someday see an atomic revolution that will equal or surpass the industrial revolution. When that day comes, we will be ready."

"Nowhere in industry can our long-range planning be equalled."

Pace, who spoke without notes, received a standing ovation. He was introduced by August C. Esenwein, Convair Fort Worth manager.

Convair to Observe Memorial Day Friday

Convair personnel everywhere will enjoy a holiday Friday (May 30) in observance of Memorial Day.

Only those employees notified in advance will be required to work. Normal work schedules will resume June 2 except for those working Saturdays, who will report May 31.

Fort Worth employees will find Memorial Day ceremonies at Carswell AFB of special interest.



LAST CHANCE—Friday, May 30, a holiday at Convair Fort Worth, is last chance for Convair employees and families to take close look at one of B-36s they built. Going over arrangements for Open House at Carswell were Col. John Roberts, acting commander of the 19th Air Division at Carswell, and G. S. Green, who was co-pilot with B. A. Erickson on first flight of first B-36.

FW Pay Boost Involves Vast Tabulating Task

Pay increases affecting approximately 46,500 individuals in Pomona, San Diego, Astronautics and Fort Worth Divisions of Convair went into effect this month, dating from May 12.

In round numbers, 2,500 at Pomona, 20,000 at SD Division, 7,000 in Astro, and 17,000 at Fort Worth get raises.

The decision to make more than 17,000 wage and salary increases—and to make them effective as of May 12—started a chain reaction at Convair Fort Worth this month which built up to a monumental task for the three departments most directly involved.

Pencils started flying, typewriters clacking and electronic calculators whirring and flashing. Personnel, general accounting and industrial accounting departments all went into all-out effort to bring records up to date and to get the increased wages and salaries into hands of employees as quickly as possible.

Increases announced on May 14 and May 15 for most hourly employees and all salaried employees will amount to an estimated \$8½ million in the first 12-month period, according to F. E. Chambers, manager of industrial relations and security.

Hourly employees in three groups benefit by the first pay increases announced. The groups are employees represented by the Federated Independent Texas Unions; employees non-represented; and employees represented by the International Association of Machinists (except Dept. 81 employees whose collective bargaining representation is pending action of the National Labor Relations Board).

The new higher rates for those employees will show up for the first time on paychecks they receive on May 29. (Employees will be paid on Thursday, since Friday is Memorial Day and a holiday.) Higher rates for sal-

Carswell to Bid 'Farewell to B-36' On Memorial Day

Carswell AFB's last Convair Fort Worth-built B-36 will be honored in a special Memorial Day ceremony and Open House at the base Friday (May 30).

All Convair Fort Worth people who helped build B-36s are especially invited to the holiday program, which will include an extensive display of modern aircraft and missiles.

During the program, B-36 number S/N 51-5704—Carswell's last—will take off and make her last flight—into retirement. It will end a ten-year reign of the B-36 at the Fort Worth base.

And, according to Maj. T. N. Mallard, general projects officer for the special ceremony, the program may be the last opportunity for people of Fort Worth to see the huge ten-engine airplane.

Appropriately, Convair's supersonic B-58 Hustler will play a big part in the show. The delta-wing bomber is slated to be on display on the ground, and is tentatively scheduled to join the B-36 and a B-52 in a flyby.

The entire program, called "Operation Milestone," will be a tribute to the men who built the B-36, who flew it, and who maintained it at Carswell AFB.

"We especially invite all Convair people who helped build the B-36 to attend the program," said Major Mallard. The show will be open to the public.

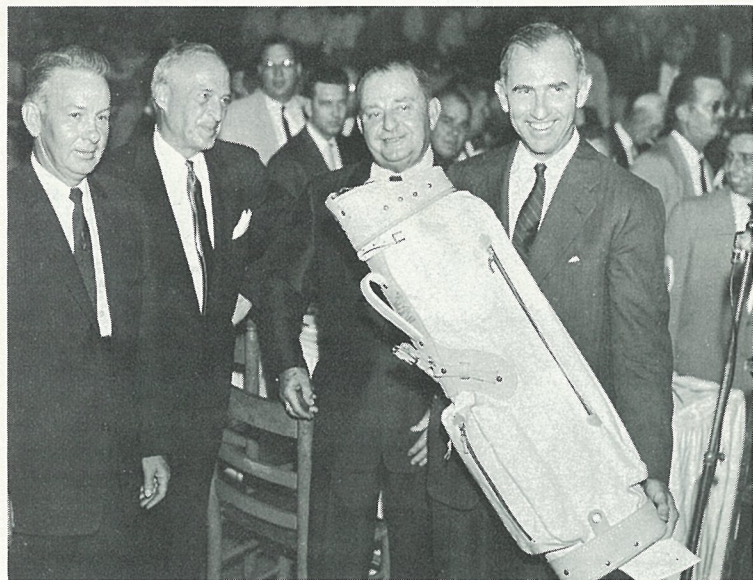
Open House will be from 9 a.m. until 3 p.m., with a ramp ceremony scheduled at 9 a.m. The ramp program will be a reenactment of the delivery of the first B-36 which came across the runway to Carswell in June, 1948.

Col. John Roberts, who was present on that occasion, also will be at the ceremony Friday.

At 11 a.m. there will be a parade by the 19th Air Division. The last B-36 will take off and fly over, and is scheduled to be joined by the B-58 and a B-52.

"The B-36 holds an honored spot in the hearts of many pilots," Mallard said. "When the chips were down, she always did the job."

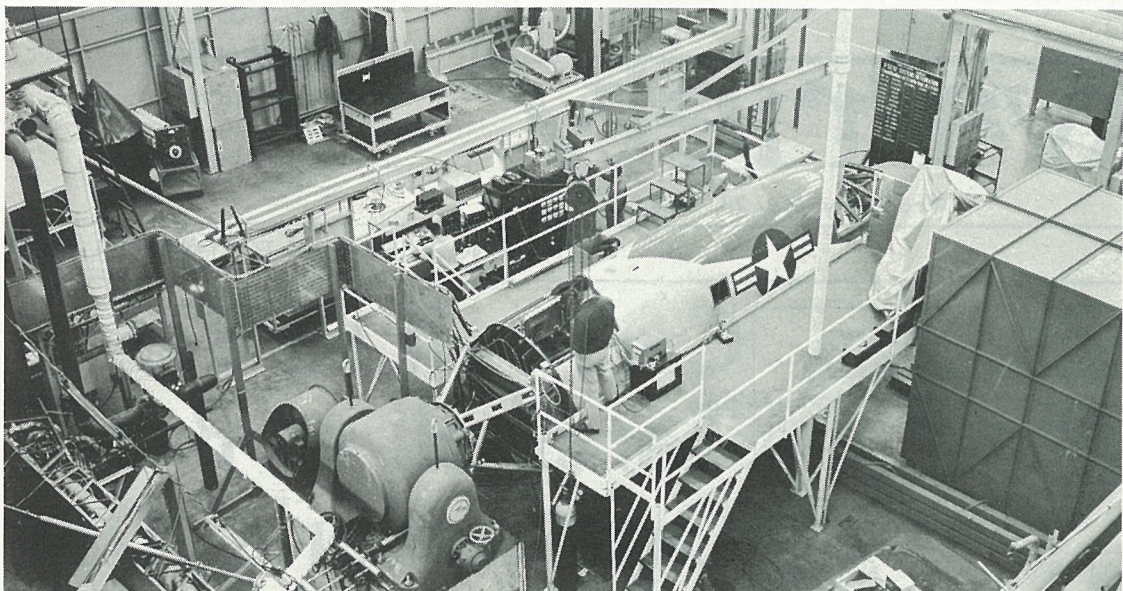
August C. Esenwein, division manager, and G. S. Green, assistant manager of customer service, will represent Convair on the reviewing stand. Green was in charge of transition flying which gave familiarization flights to crews when Carswell got its first planes.



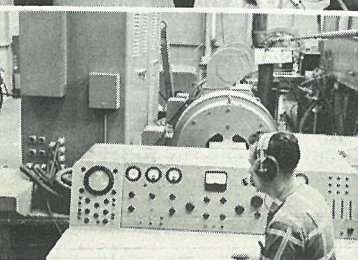
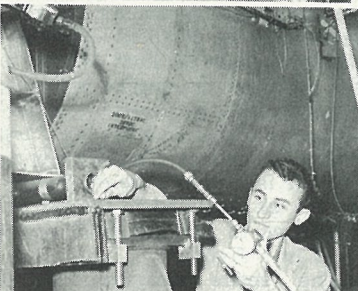
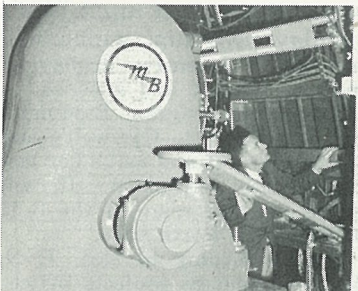
FOR A GOLFER—Frank Pace Jr. shows new golf bag to, left to right, Dick Curry, Management Club president; August C. Esenwein, division manager; and I. M. Laddon, a General Dynamics Corporation director. Bag was gift of club to Pace, who also is president of International Golf Association.



ONE A SECOND—Checks reflecting new increases are clacked out at more than 75 a minute by check-writing machine as Frank Furr monitors.



AIRBORNE—Cabin of B-58, mounted on air cushions, gets "all shook up" by big vibration machine during systems integration testing at Fort Worth.



In top picture James Green of Convair FW inspects vibrator attachment. Center: Bob Baker airs up rubber cushion which helps duplicate "in-flight" conditions. Below: W. R. Gidley sits at controls console.

Astro Dedication Date Reset July 12

Convair Astronautics has delayed a dedication and Open House at its new Kearny Mesa plant site from June 21 until July 12.

At that time most of the new facilities will be open to the families of employees as well as to the general public. The new date was chosen as being more convenient for top Washington officials who have been invited to attend.

B-58 Cabin Takes Beating Floating on Bags of Air

Punch drunk prize fighters are pikers by comparison with a Convair Fort Worth supersonic B-58 cabin which takes more "punches" in an instant than fighters absorb in championship bouts.

The plane's cabin section weathers 2,000 "rabbit punches" a second during one of the most rugged vibration tests ever attempted on such a scale.

The B-58's health is unimpaired, according to E. E. Murphy, group engineer in the engineering test lab.

"The tests are satisfactory in every way," he said.

Tests are to check compatibility of integrated systems under varying conditions of vibration, and to determine how vibration is transmitted through the cabin structure.

The B-58 cabin literally "dances on air" as it vibrates on unique air bags which completely support it above steel stanchions.

A huge nine-ton vibration exciter delivers the "rabbit

punches," which are tiny but powerful strokes to simulate actual in-flight vibration. The big machine delivers up to 2,000 cycles per second. The entire unit is portable.

The air bag supports were designed after H. C. Riepe, research test engineer, called for the test cabin section to be completely separated from all supports, possibly by springs or rubber pads.

"As a result," said J. R. Baker of the engineering test lab, "the air supports were one of the better features of the test."

"We knew that each measurement reflected the exact amount of vibration."

Flat rubber bags supported the cabin from each of three stanchions. The front bag is inflated to 18 pounds per square inch, and the two rear bags each get nine pounds per square inch.

Appropriate systems mounted inside the cabin are thus evaluated in relation to each other as they dance under the electrifying vibration.



"Before we find a way to launch a space station into orbit, I wish we could find a way to remember where we parked the car..."

Tricky Wing Tip Process Dropped In Favor of New Mfg. Design

A new design for the wing tip of Convair's supersonic B-58 Hustler bomber may be an indication of things to come in integral skin-slug construction.

The new wing tip section, which will result in considerable production savings, also will trim weight of the Hustler by 20 pounds per airplane.

Secret of the new design is etched skin-slug construction, first such contoured application designed into the delta-wing bomber.

The new construction eliminates dozens of detail parts and difficult "layup" bonding.

Formerly, numerous wing tip slugs were manufactured. Outer skins were attached to the slugs with adhesives, then honeycomb of varying thickness went into the contoured wing tip. The process was tricky because of exact-

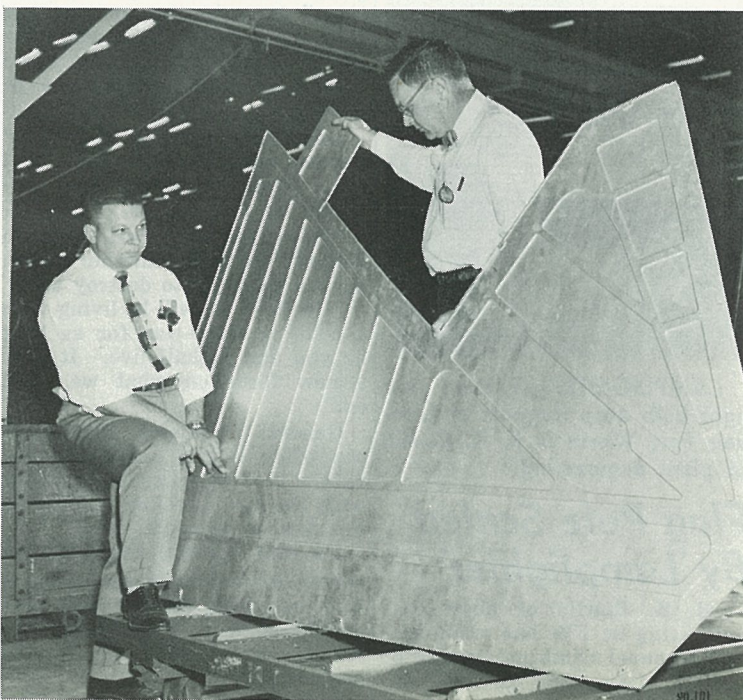
ing tolerances.

L. H. Gekler, Dept. 6-4, said a redesign of the wing tip was started to improve producibility. The new design would utilize two thin, constant thickness panels instead of the former full-depth panel.

Convair Fort Worth's manufacturing research and development tackled the production aspect of the new design and came up with the contoured, etched skin-slug technique.

Now, a single piece of .22-inch stock is etched to produce an outer skin and internal slugs in one integral unit. The outer skin has a thickness of only .025 inch!

D. L. Allie, senior manufacturing research engineer, said the new wing tip represents "quite a milestone." It probably will open the door for many other applications on the Hustler.



WING TIP—C. F. Gulik, left, and C. E. Martens of Convair Fort Worth look over new B-58 wing tip component. Etched component will reduce number of wing tip panels from seven to four, and will reduce weight 20 pounds.

Gen. Irvine Will Address M-2 Club During Induction Dinner at FW

Twenty-five men who have flown twice the speed of sound in B-58 bombers will be inducted into Convair's M-2 Club at a dinner May 30 at Ridglea Country Club in Fort Worth.

Lt. Gen. C. S. Irvine, an M-2 Club member, will speak to point up the teamwork of industry and the Air Force in pioneering sustained supersonic flight. Irvine is USAF deputy chief of staff-materiel.

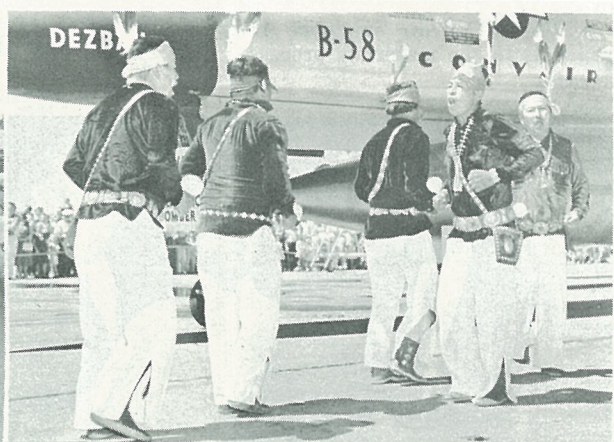
August C. Esenwein, Convair Fort Worth manager, will act as host on behalf of Convair.

B. A. Erickson, director of the M-2 Club's bomber branch, said that the men to be honored include Gen. T. S. Power, command-

er of Strategic Air Command, Lt. Gen. Irvine, Maj. F. L. Fulton, Lt. J. Armstrong, M/Sgt. C. H. Garringer, and E. W. Dunlap, a civilian employee of the Air Force. The 19 other men are all of Convair.

M-2 Club members at the dinner will be issued credentials, membership cards, pins and certificates, according to Loyd L. Turner, special assistant to the division manager.

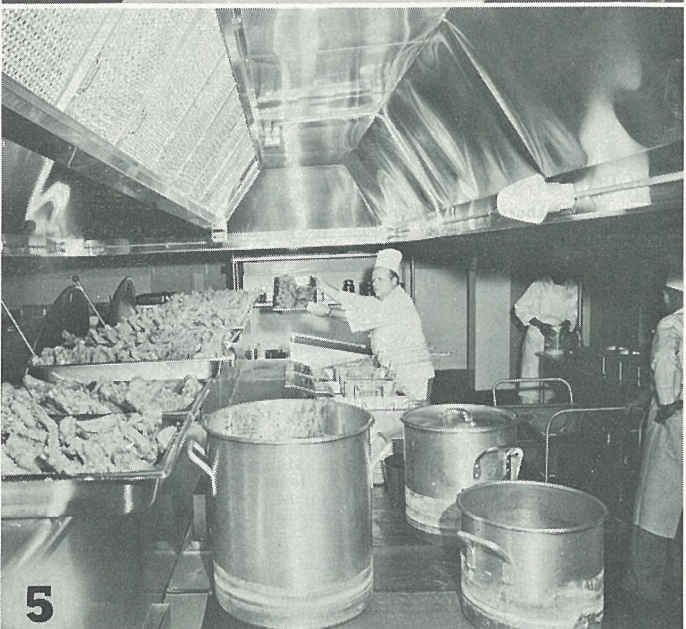
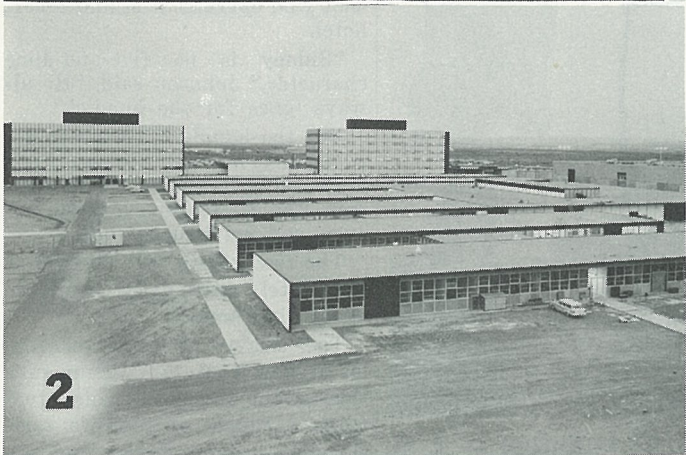
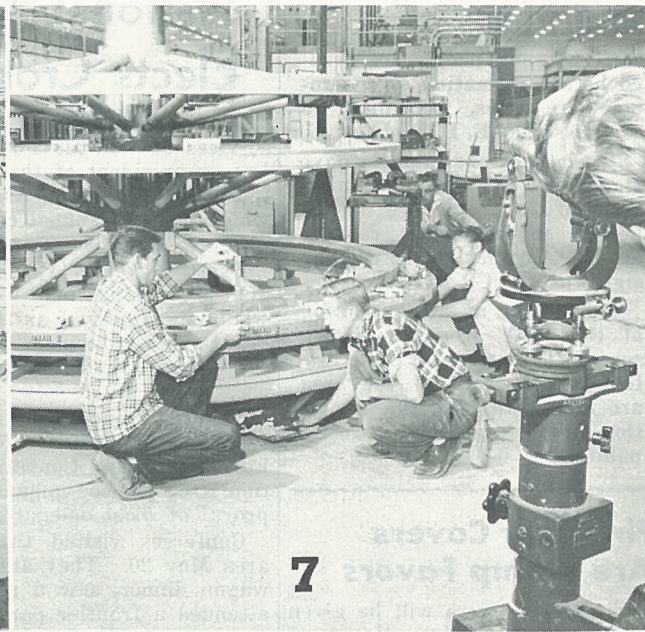
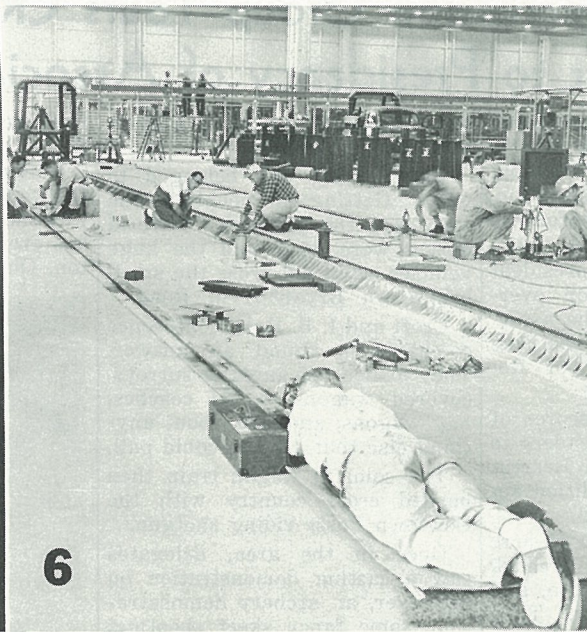
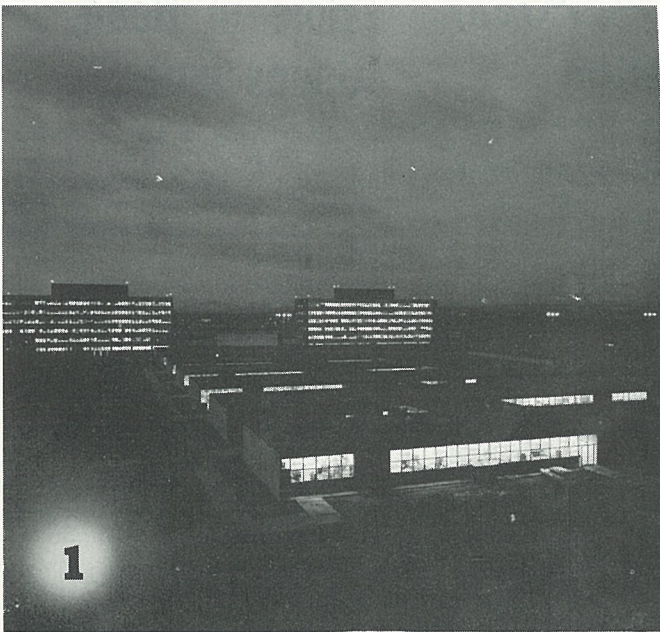
Convair FW M-2 members include: S. M. Andrich, P. E. Brewer, G. I. Davis, W. E. Denton, B. A. Erickson, R. E. Fisher, J. A. Rogerson, R. Fitzgerald, W. G. Griswold, C. P. Harrison, D. C. Houston, C. T. Jones, J. D. McEachern, J. C. Lucas, R. D. Miller, A. G. Mitchell, N. C. Stranberg, G. C. Tate, A. S. Wittich Jr.



WORKOUT—F-102s, F-106s and B-58s got workouts during Armed Forces Day celebrations at various bases. Top left was scene at Andrews AFB near Washington, D.C. Top center, also at Washington, are B. F. Coggan, R. L. Johnson, Lt. Gen. W. H. Tunner, USAF, August C. Esenwein, T. G. Lanphier Jr. At top right, Navajo Indians do special dance during Kirtland AFB show, with B-58 in

background. Center below and right were taken at Holloman AFB when F-106s paused there for maintenance en route east. Right: Pilot J. K. Stuart and N. F. Moore, chief flight test group engineer. Center: A. J. Seifert, SD internal auditing manager, Lt. Col. H. M. Lane, Don Humphreys, flight test pilot. F-106s performed "very successfully" in maiden appearances.

Curious Camera Catches Highlights at New Astronautics Plant



(1) and (2) Taken from same point of vantage, night and day shots of Astronautics Division plant at San Diego afford interesting comparison.

(3) Equipped with modernistic furniture and attractively decorated, new Astro cafeteria went into operation this month.

(4) Cafeteria diners on opening day included Convair President J. V. Naish, R. H. Biron, vice president-administration, and J. R. Dempsey, Astro Division manager.

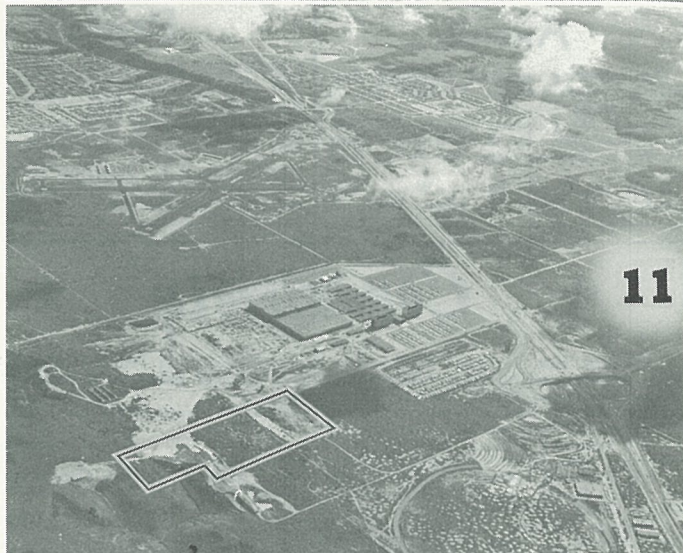
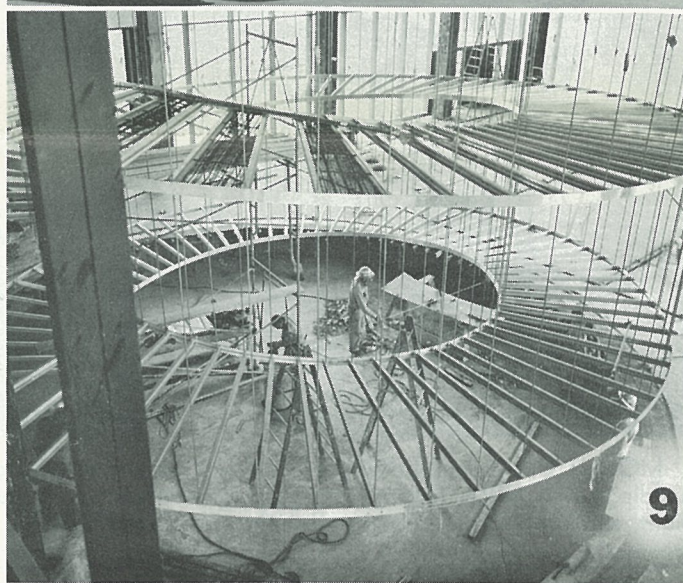
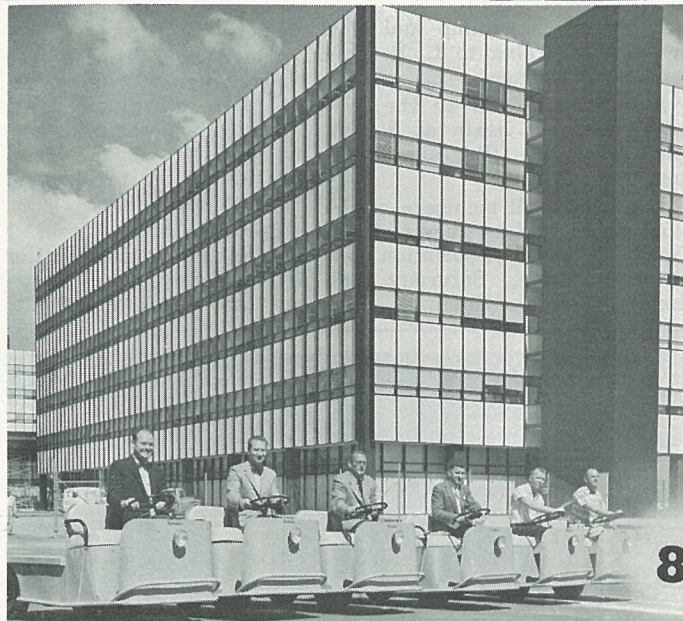
(5) In gleaming cafeteria kitchen, Chef Joe Singletary prepares fried chicken.

(6) and (7) Positioning of production fixtures progresses in Astro's Bldg. 5. In (6) C. H. Disbro of SD Dept. 603 sights through tooling scope to determine exact height for rails that will support welding machine. In (7) Richard Cumo, Carl Williams, Bob Craig, R. J. Spanley and A. Roberts, Depts. 451 and 280, work on vertical jig.

(8) Ready for action at Astro are these "Pony Express" trucks. Battery-powered, they have two forward speeds and reverse, will be used for delivery of stores and small stock inside factory. Maintenance also will use them to haul supplies or serve electrical crews.

(9) Suspended aluminum spiral staircase takes shape in Bldg. 2 reception center. Stairs are 200 feet long. Where workmen are standing will be part of decorative pool, when completed. Water, however, will serve useful purpose as extra reservoir in case of fire.

(10) and (11) Machinery breaks ground near new Astro plant in development of new 25-acre recreation site. Note plant buildings behind tractor. In aerial view location is outlined. Little League ball park is nearing completion. Ground leveling is major step in long range program which ultimately will include swimming pool, ball diamonds, tennis courts, clubhouse, etc.



People Needed For Art Class

Eight more people are needed before formation of a summer art class, according to commissioner E. D. Weimer.

Twelve persons thus far have signed for the class. A minimum of 20 people are needed before an instructor can be hired. Anyone interested may sign with the CRA office.

Meanwhile, an art exhibition at the CRA area has drawn some 30 entries. People attending functions at the area are invited to view the exhibition and vote on their favorite painting.

First Day Covers Are Stamp Favors

First day covers will be given to people attending the next meeting of the stamp and coin activity, according to L. R. Wilson, commissioner.

Stamp bingo will be the program. It will begin at 8 p.m. June 3 at the CRA area clubhouse.

Meanwhile, all members of the club are invited as guests at the Texas Philatelic Association conference Friday, Saturday and Sunday at Hilton Hotel.

At CRA: A Bit of the 'Old West'

National Recreation Group Tours CRA Area; Elects Croft to Presidency of Association

T. G. Croft, chief of employee services at Convair Fort Worth, is new president of the National Industrial Recreation Association, which held its annual conference in Fort Worth last week.

Croft, a former vice president of the organization, won overwhelming approval as the association's new president. He succeeds Kenneth Klingler of Rochester, N. Y.

The conference drew scores of the nation's recreation leaders to Fort Worth, and Convair Recreation Area got the unqualified approval of most delegates.

Conferees visited the 80-acre area May 20. They ate a chuck wagon dinner, saw a rodeo, and attended a frontier party. They went away with something to talk about!

Speakers at the conference included August C. Esenwein, Convair Fort Worth manager; Darrell Royal, football coach at Texas; and Dr. Shane MacCarthy, director of the president's council on youth fitness.

Fort Worth's Byron Nelson gave a golf demonstration, and Winnie Leonard and Mary Smith saw that wives of delegates had

a full program, including a shopping tour to Dallas.

But the big day belonged to CRA. Getting the people to the area was the problem. Several busses were used, and the huge vehicles could not cross the small bridge on Bryant-Irvin Road.

Croft and I. B. Hale, conference co-chairmen, found an answer. They loaded delegates in surreys, covered wagons, stage coaches, hay wagons, and just about anything else that a horse could pull.

The colorful wagon train then headed cross country with the Cowtown Posse riding shotgun.

Once in the area, delegates saw a casting demonstration on the river, an archery demonstration, some fancy skeet shooting, and a roller skating exhibition.

Each of CRA's more than 30 activities had displays up for the guests to see.

Then, delegates whooped it up at a wild rodeo in the CRA arena. About half the delegates said it was their first rodeo, and they talked about it until the conference ended.

The CRA clubhouse could have been a haybarn on anybody's ranch as the frontier party got under way. Bales of hay lined the building as seats, and well-worn saddles and bridles hung from the walls.

Getting into the spirit of the western flavor, many of the visitors purchased western clothing before the CRA activities began.

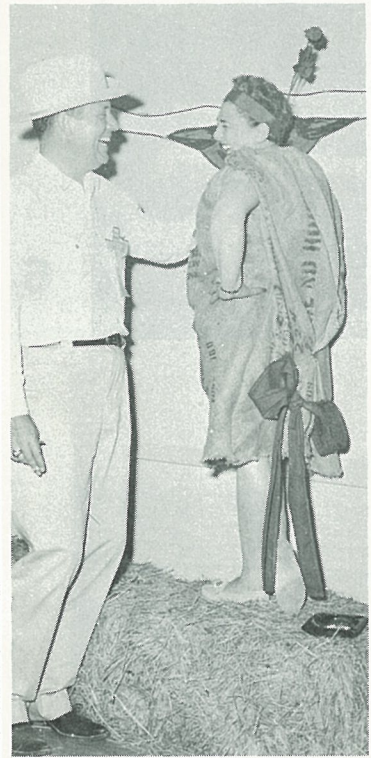
Eileen Roddick-Roberts, tour manager of the New York convention and Visitors Bureau, showed up in a unique sack dress fashioned of burlap bags.

"If this doesn't kill the chemise," she said, "I'll give up."

Charles Croxton of Convair sang a charming ballad for a performance of "Frankie and Johnny," or "Things Were Tuff on the Old Frontier." Players all appropriately costumed and well-rehearsed, were John H. Leslie of 3-M Company as Frankie, Wally Boswell of Motorola as Johnny, Ben Kozman of Thompson Products as Nellie, and Bid

Edmund of Goodyear as Rot-Gut Pete.

Philadelphia will be host to the conference next year. This was the first year that the event has ever been held south of Dayton, Ohio.



YOU'RE KIDDING! — T. G. Croft chuckles at western chemise modeled by Eileen Roddick-Roberts of New York at NIRA frontier party. Event was held at CRA clubhouse.

Bridge Club Names Winners

Winners of master bridge play at CRA this month were Mrs. G. L. Hutchinson and Mrs. R. L. McCreight. In second place were Mrs. E. B. Maske Jr. and Mrs. Robert J. Patton.

Mrs. Herman Ankenbruck said the session—first master point game of the morning group—was very successful.

Next morning play will be held at 9:30 a.m. June 4 at the CRA clubhouse. Second shift employees and wives of all employees are invited to participate.

People with child care problems are asked to contact Mrs. Ankenbruck at PE 7-7047.

Is It News?

Is it news? Then grab a telephone and call Convairiety:

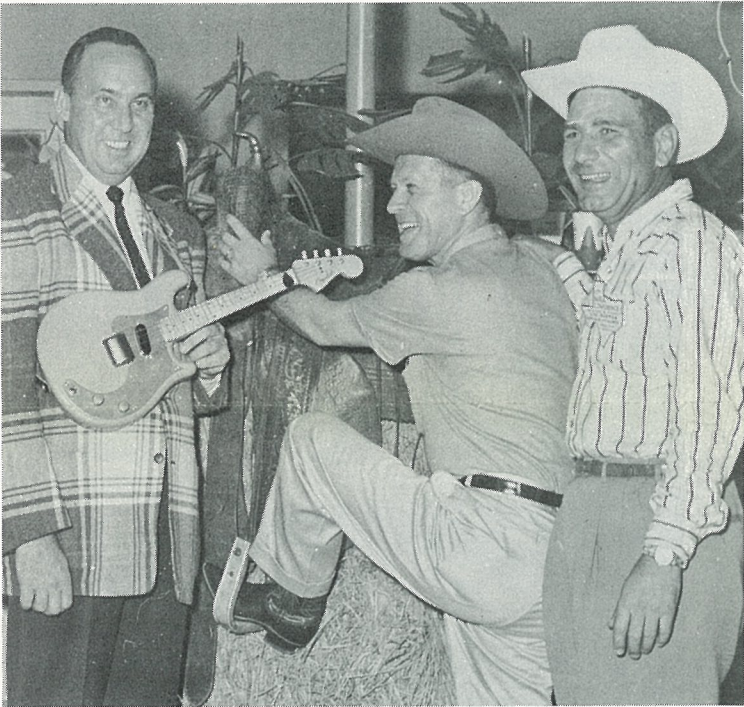
In Fort Worth: ext. 8245
In Daingerfield: ext. 424

The Passing Years...

Fort Worth

The following service emblems are due during the period June 1 through June 15:
Fifteen-year: Dept. 4, M. M. Anderson, J. T. Y. Tyler; Dept. 6, T. H. Dunn, W. C. Eells, R. M. Ellis, J. E. Hejl, J. Spencer, J. C. Wilson.
Dept. 14, E. S. Gordon, M. C. Walker; Dept. 19, F. B. Stebbins; Dept. 20, J. A. Bradshaw Jr.; Dept. 22, L. G. Ivy, C. H. Smith; Dept. 23, G. W. Griffiths, D. C. Mason.
Dept. 24, E. S. Blackburn, B. B. Burnett, L. E. Evans, C. M. Nolden, O. B. Powell, J. A. Schilder; Dept. 25, F. McNeary, R. H. Taylor, J. O. Young.
Dept. 29, A. L. Buchanan, J. S. Wood; Dept. 30, J. R. Cox Sr.; Dept. 31, M. Head Jr., R. L. Tomlin, F. T. Vowell; Dept. 33, J. M. Roberts.
Dept. 36, C. W. Jones; Dept. 46, W. R. Arendall, V. R. Nance; Dept. 48, J. W. Beaver; Dept. 56, J. W. Like, M. Miller; Dept. 62, A. J. Fitzgerald.
Dept. 64, L. D. Allcorn, L. A. Brown, M. E. Burks, J. W. Dodson, J. Farr, J. V. Gallaher, J. B. Guyer, W. C. Harper, G. W. Lively, J. A. Munn, F. C. Phillips, C. A. Secor, R. A. Smith, W. F. Walker, B. R. Williams, J. Worsham.
Dept. 65, W. O. Davis, S. O. Hutchinson; Dept. 74, H. L. Christy, P. A. Clem; Dept. 76, W. R. Reese; Dept. 77, O. I. Jones; Dept. 81, J. C. Perdue.
Dept. 82, P. C. Anderson, H. G. Dowden, R. G. McMillin, W. C. Wheeler; Dept. 94, W. C. Daniel, J. E. Harper; Dept. 95, S. E. Mills; Dept. 96, C. F. Rowe.

Ten-year: Dept. 3, P. G. Beasley; Dept. 4, P. V. Wehunt, C. F. Wilkerson, A. J. Worlow; Dept. 5, T. D. Wakeley.
Dept. 6, J. L. Atwood, S. V. Brunk, D. D. Hatchett, A. E. Peck, G. A. Norton, K. L. Prohs, J. E. Rasmussen, J. A. Raynor; Dept. 7, L. R. Cox, J. W. Hatfield, P. C. Yarnell.
Dept. 9, R. D. Sherrill Jr.; Dept. 16, V. M. Key, R. H. Foster; Dept. 19, L. W. Bradshaw; Dept. 21, J. L. Arnold; Dept. 24, E. B. Dodge, C. E. Russell.
Dept. 25, C. N. Nimitz Jr., U. S. Smith, C. T. Westmoreland; Dept. 27, T. W. Busby, W. J. Dane, G. F. Holder, J. Lanzarotti, W. E. Smith, M. K. Wylie.
Dept. 30, W. L. Givens, J. T. McCreight; Dept. 31, D. C. Corley; Dept. 35, R. L. Wright; Dept. 36, E. B. Ayers, M. C. Bennett, E. W. Meador, C. Decker, T. R. Reed, J. W. Williams.
Dept. 42, J. A. Lopez; Dept. 46, V. E. Buel, W. D. Dollar, B. J. Faries, M. J. Holmes, S. L. Kelly, M. D. McDonald; Dept. 54, T. Mandoni, B. H. Ranson.
Dept. 56, A. J. Bruce, B. J. Douglas, J. McDaniel, L. D. Pressley; Dept. 57, D. L. Milligan; Dept. 58, T. L. Harvey, P. E. Jones; Dept. 59, J. W. Smith.
Dept. 64, J. Alvarez, E. C. Jackson, N. D. Marshall, T. L. Vana, W. A. Stelter; Dept. 73, A. W. Jaracz; Dept. 74, B. B. Calvert, J. D. House, E. Mahon, W. D. Paul.
Dept. 75, E. L. Richardson, T. I. Shadden; Dept. 77, T. L. Weems; Dept. 81, C. W. Beard, M. W. Dellis, M. E. Fester, D. N. Lawlis, W. B. Trantham, M. D. Waggoner.



MOUNT UP—Kenneth Klingler of New York prepares to get in saddle during NIRA Frontier party at CRA area. J. L. Budros, right, and "Jethro" of Homer and Jethro team seem to enjoy it all.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective May 12 are:
Dept. 6: to nuclear engineer, D. Affleck; to design engineer, A. A. Lindner, C. B. Shields; to senior structures engineer, J. A. Mallon, J. W. Norris; to flight test engineer, D. J. Brooks; to senior flight test engineer, H. H. Nesbitt; to test engineer, R. D. Dedman, B. E. Johnson.
Dept. 8: to industrial engineer, Q. R. Creasy; Dept. 18: to senior price estimator, W. G. Russell; Dept. 19: to tabulating analyst, R. C. Atchison.
Dept. 21: to GFE supervisor, H. W. Thompson; to GFE assistant supervisor, S. G. Matthews; to project coordinator, W. G. Feik; to procurement representative, M. W. Peck.
Dept. 25: to assistant foreman, J. R. Hammond; Dept. 62: to assistant foreman, A. Hren, T. H. Lide; Dept. 63: to general foreman, W. L. Daniel Jr.

Awards

The following received Employee Suggestion awards totaling \$1423.60 for the period ending May 8:
Dept. 6, W. J. Beattie III, K. L. Prohs, B. L. Lawrence, R. H. McDaniel; Dept. 14, W. B. Reavis; Dept. 19, H. J. Jackson.
Dept. 24, R. T. Parker, W. G. Holbrook, J. C. Keller, J. Alcon; Dept. 25,

M. L. Powell, L. E. Baumann, C. D. Shippey; Dept. 27, H. L. Law, M. V. Chenault.
Dept. 29, K. D. Brannum; Dept. 30, G. F. Dempsey, D. E. Wheatley, J. Hudson; Dept. 32, A. O. Davis, E. D. K. Mitchell; Dept. 35, S. J. Cooper, V. W. Hutchison.
Dept. 52, O. D. Peterson; Dept. 64, R. L. Johnson; Dept. 81, P. Opitz, W. A. Palmer, G. B. Bell, W. H. Troxell, L. C. Skaggs.
Dept. 82, D. C. Marvin, P. R. Flanagan, T. W. Key; Dept. 95, C. J. Rosenberg.

Births

JOHNSON—Simianne, 8 lbs. 10 ozs., born May 11 to Mr. and Mrs. Lenard S. Johnson Sr., Depts. 59 and 24.
FAYLER—Barbara Jane, 2 lbs. 2-1/2 ozs., born April 15 to Mr. and Mrs. I. L. Fayler, Dept. 46.

Deaths

REDMOND—Dock L., 55, Dept. 15, died May 20. Survivors are his wife, four daughters; three brothers and two sisters.
DAVIS—Emmett W., 53, Dept. 15, died May 21. Survivors are his wife and son.
MOSELEY—T. C., 52, Dept. 31, died May 18. Survivors are his wife, one daughter, and three grandchildren.



TAILS—A. A. Patterson of Dept. 56 is in derby and tails for his last day on job. He retired this month after 14 years.

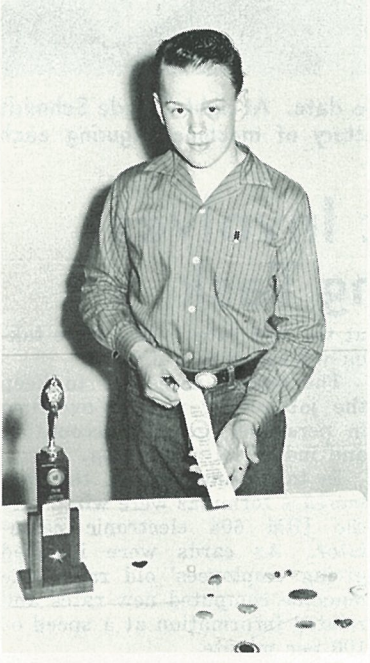
Convairiety

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.
Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.
SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, news editor; Grayce Fath, Helen Pemberton.
FW Editorial Offices, Col. 71-C. Ext. 8245. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.
Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8. Staff: James Combs Jr., news editor; Dorothy Keller.
Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Young Millett's Jewelry Work Takes Top Honors in State Show

Kenneth Millett, 12, son of A. B. Millett of engineering, holds the state's top award for design of jewelry, and has the state's third place award for cutting and polishing of stones.

The awards were presented during the Texas Federation of



YOUNG ROCKHOUND — Kenneth Millett, 12, shows top awards he won in state mineral societies show.

Veach Is High In Club Bowling

Chester Veach rolled 618 to take high individual scratch honors as a material department team took the annual Management Club bowling tournament with a score of 2938.

Members of the winning team includes Bob Rigdon, H. L. Cole, H. T. Feldhausen and Sam Pearson.

The annual tournament matches the long-distance bowling prowess of Convair and Lockheed teams. The Lockheed games are rolled in California. Results of the two-club competitions are not yet compiled.

Mineral Societies Show in Dallas this month. The Texas show was held in conjunction with the annual exhibit of the National Federation of Mineral Societies.

Young Millett's top award came for the design and manufacture of a piece of jewelry from a sheet of silver "raw stock."

R. L. Norment, CRA commissioner, said Millett's awards were in the show's junior division. The youth has been a CRA rockhound about 15 months, and attended CRA classes to increase his skill.

"The competition was very stiff this year," Norment said. "There are more than 1,700 members of the society in the state. Millett's awards are quite an honor."

Lapidary (cutting and polishing) classes are held in CRA's picnic area No. 2 each Thursday at 7 p.m. All necessary equipment and qualified instruction is available.

Fee is 10 cents an hour, which helps pay for supplies used in the cutting and polishing of raw stones.

Crooked Lines Win League Title

A team called "crooked lines" walked straight to a championship after rolling 280 games in engineering bowling league.

"Scribblers" scrambled for the crown, but were half game shy. Crooked lines ended with 164 wins, 116 losses. It was good enough to take the 20-team league title. The teams bowl at Bowling Center.

Team members are Carl Hiem, Dan Murphy, Hal Lowes, Tony Ocone and Weldon Dyer. H. W. Hinckley, assistant chief engineer, presented each with an individual trophy at season's end.

Tot Area Is Open

Parents attending functions at CRA are invited to leave children in the attended Tiny Tot Area, which is open from 9 a.m. until 11 p.m. daily. There is a moderate fee.

Softball All-Stars Play at CRA Friday

A grandstand packed with rooters is expected for CRA's all-star softball games at Convair Recreation Area Friday (May 30).

The two top teams from Convair leagues will compete against the leaders in engineering leagues in games at 7:30 p.m. and 9 a.m.

"All employees are welcome to come out and watch the action," said R. L. Evans, commissioner. "There should be some fine softball played."

Sandquist Wins First Tourney After 25 Years

One of the most thrilled men to emerge from the recent CRA table tennis tournament is L. A. Sandquist. He won his first trophy after playing the game for 25 years.

Sandquist nudged out W. Gibbons, who took second place in the senior men's division.

Upsets were scored in men's novice and junior divisions, but Ken Dwyer was victim of the most crushing defeat. He was nudged out of first place by his son, Jimmy.

Young Dwyer also scored well to defeat B. B. Treese in the junior division.

Jim Collin took the men's singles crown, and Carolyn Norman and mother, Lydia, finished one-two in women's singles.

In men's singles, Louie Lancer was second, Joe Rodriguez in third, and Dave Clutterham finished fourth. Other results were:

Women's doubles: the Normans, first; Rose and Betty Richardson, second. Mixed doubles: Lancer and Carolyn Norman, first; Rodriguez and Lydia Norman, second. Men's doubles: Collin and Rangel, first; Clutterham and Bob Gault, second.

Austin Bond Hurls No Hit Ball Game

There was little for the players of Dept. 19-3 to do in a softball contest last week. Austin Bond pitched a five-inning no hit game to defeat Dept. 75, 17-0.

The win shot Dept. 19-3 in second place with three wins and a loss. Dept. 28-4 is undefeated in four games to stake undisputed claim on first place.

The second shift games are played at 10 a.m. each Thursday.

CRA Divers Invited To Fishing Contest

CRA skindivers are invited to participate in a spear fishing contest at Possum Kingdom Lake at 7 a.m. June 8.

The contest is sponsored by Fort Worth Inland Divers Association, and will draw teams from Houston, Dallas and Abilene. Only rough fish will be taken. There will be a small entry fee.

W. D. Pressly, president of CRA divers, said people attending the event also are invited to arrive on June 7 for a picnic. For information, call Pressly after 5 p.m. at WA 3-8815.

Badminton Event To Be Held in Fall

The annual CRA badminton tournament will be postponed until the fall, according to commissioner Roy Harrison.

The event had to be rescheduled because of conflicts on getting a gymnasium. The activity at present must use facilities of Fort Worth Public Schools.

Harrison said all scheduled events will be held during the tournament this fall.



TAGGED—Ronnie Cleveland is tagged out at home plate during junior baseball practice. Six teams in 12-and-under league play Tuesday through Friday nights at CRA area.

17 and 64 Advance to Finals In Departmental Baseball Play

Dept. 17 and 64 downed all opponents to reach finals in the departmental baseball tournament, and the championship game was due to be played off last Sunday.

Seventeen defeated departments 44 and 74 in advancing to the finals, and Dept. 64 downed departments 4 and 27.

"It has been a very good tournament with a lot of interest by everyone," said Roy Jarl, commissioner. "This was our first year

for such an event, and it will certainly be repeated again next season."

Jarl said the loser's round in the departmental tournament will begin on the weekend following the Memorial Day holiday. The loser's games will determine a consolation champion.

Meanwhile, CRA's major team continues to compete in the Dallas Sunday major league. The team has lost two, won one. Both losses were by close scores.

Beginning in mid-June, the CRA team will also play in the Fort Worth night city league, which will consist of Convair, Carswell, Mansfield and Westcliff.

Archery Shoot Slated Tomorrow

People interested in archery are invited to shoot on CRA's lighted range from 7 to 10 p.m. each Thursday, according to H. L. Lucas, commissioner.

Instructions are available for beginners, and a limited amount of equipment can be provided for use. There is no charge.



WINNERS—H. W. Hinckley, assistant chief engineer, left, presents individual trophies to winners of 20-team Engineering bowling league. Left to right are, Carl Hiem, Dan Murphy, Hal Lowes, Tony Ocone and Weldon Dyer.

Activities Calendar . . .

Fort Worth

ARCHERY—H. L. Lucas, commissioner, ext. 8283. Shoot Thursdays, 7-10 p.m., archery range, CRA area.

ART—E. D. Weimer, commissioner, ext. 5205. Sign up for summer art class at CRA office.

BRIDGE—G. P. Anderson, commissioner, ext. 3226. Duplicate sessions: Fridays, 7:45 p.m.; June 4, 9:30 a.m., CRA Building.

CAMERA—Miles Rogers, commissioner, ext. 2294. Color contest May 28; shooting session June 11, 7:30 p.m., CRA Building.

CHESS—R. W. Wooten, commissioner, Annex 2, ext. 302. Meeting June 4, 7:30 p.m., CRA Building.

DRAMA—E. S. Brown, commissioner, ext. 5242. Play production, "A Hole in the Head," June 5, 6, 7, 13 and 14, 8:15 p.m., CRA Playhouse.

MODEL AIRPLANE—C. L. Price, commissioner, ext. 7106. Meeting June 10, 7:45 p.m., CRA Building.

MOVIES—June 2-6, "The First Time"; June 9-13, "The Barefoot Mailman" (color) both movies star Robert Cummings. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner, ext. 2186. Operating night May 29, June 5 and 12, 7:30 p.m.; novice code and theory class, Saturdays, 10:30 a.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

ROCKHOUNDS—R. L. Norment, commissioner, ext. 7181. Meeting June 10; classes Thursdays, CRA Building.

SOFTBALL—R. L. Evans, commissioner, ext. 5141. Games Tuesday through Friday, 7:30 and 9 p.m., CRA area.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each Thursday: beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

STAMP AND COIN—L. R. Wilson, commissioner, ext. 8225. Philatelic convention May 30-June 1, Hilton Hotel; stamp bingo June 3, CRA Building.

TENNIS—Gene Records, commissioner, ext. 2164. Play Tuesdays and Thursdays, 6-9 p.m., Forest Park Courts.

VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 8131. Tournament June 2 and 3, 7 p.m., Southside Rec. Building. Supervised free play Thursdays, 7 p.m., Saturdays and Sundays, 3 p.m., CRA area.

WOMEN'S CLUB—Mary Smith, commissioner, ext. 4221. Second shift: picnic being planned for June, CRA area.

Daingerfield

BRIDGE—J. R. Nazzari, commissioner, ext. 481. Party bridge second and fourth Thursday, 7:30 p.m. See bulletin board for location.



TOP KEGLERS—Classicette league bowlers show top awards taken in city bowling tournament this month. Esco Huber, left, is singles champ. Edith Cross, center, took all events trophy and teamed with Opal Brever, right, to win doubles championship.



BACK-STAGE—There's more to a general pay increase than just picking up a check. Back-stage, it means a lot of work. At left above is scene in wage and salary, with desk of W. F. Stecker in foreground. Center are Marilyn Bailey and

Betty Martin, tackling task of bringing records up to date. At right Claude Schmidt looks on as Nell Coursey operates one of a battery of machines figuring each employee's new income.

Jr. Achievers Win Honors

Junior achievement companies sponsored by Convair Fort Worth's Management Club walked off with more than their share of honors in the annual JA area competition.

Of the industry, safety, attendance, and special recognition awards, the three Convair-sponsored companies took one first three seconds and a third.

E. G. Hill, JA chairman for the Management Club, said all JA companies now are liquidated, with each company declaring a dividend of 10 per cent to original investors.

Each company also paid a bonus to employees based on each employee's contribution during the year.

Woodvair, which manufactured Santa Claus mugs and thread spoolers, won the top area special recognition award.

Hill also announced the year's outstanding achievers. They are: Magnatoy, Douglas Gann and Lanita Due (daughter of C. D. Due of Convair); Ni-Glo Products, Donald Campbell Jr. and Judy Bassham (daughter of Howard Bassham of Convair); Woodvair, Ronnie Zodin and Gloria Selleh.

JA advisers are: J. C. Hobbs, H. E. Keswick, W. P. Engelfried, G. P. Nelson, Magnatoy; J. B. Rankin, W. H. Knight, B. L. Murphy, B. C. Ochojski, Ni-Glo Products; and M. J. Scott, L. G. Ivy, E. E. Hatchett, T. V. Malloy, Woodvair.



"We tried a short cut in the fog last night."

'Walk to Work' Turns Into 20-Mile Stroll

When Jerry Wright left home for work at Convair Fort Worth May 14, he had no idea it would be a 20-mile stroll. But it was.

Jerry, 21, flight test photo lab, couldn't start his car. It was already 2:30 p.m.—time to leave his Forrest Hills addition home (southeast of Fort Worth) to be in time to start the second shift at 3:45 p.m.

So he started walking. Someone would give him a ride, surely. But no one did. He kept walking—and reported for work at 6 p.m.!

Old B-36 Wing Docks Cut For Scrap at FW

Wing docks which once sheltered a mighty force of Convair B-36 intercontinental bombers fell under a wrecker's cutting torch this month.

Thirteen of the huge work stations at Convair Fort Worth are being dismantled. They have served their usefulness and now will be sold for salvage.

Scores of other work stands and platforms used during the heyday of the B-36 SAM-SAC modernization program also are being broken up for salvage.

J. W. Doggett, foreman of salvage and disposal, said Hutchison Pipe and Waste Material Company will salvage the obsolete workstands and platforms. Removal of the wing docks will make additional space available in the yard area.

The structures are being removed at a rate of about two each week.

Wing docks along the flight line will not be removed under the present contract.

Convair Men Elected By Safety Engineers

Two top offices of the Fort Worth chapter, American Society of Safety Engineers, will be filled this year by people from Convair Fort Worth.

Charles R. Schaeffer will be general chairman, and Hollis W. Loven will be first vice chairman. They will be installed June 9.

Fred R. Temple, chief safety engineer at Convair Fort Worth, is member-at-large.

'BETTER WAY' NETS \$468 IN ES AWARD FOR DEPT. 55 MAN

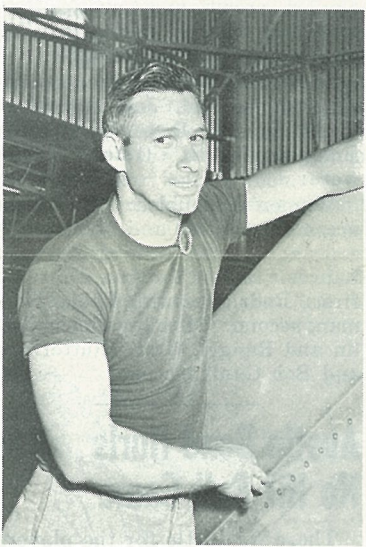
One of Convair Fort Worth's more tedious jobs was eliminated this month when M. L. Lowry of Dept. 55 suggested "a better way to thread a needle."

Lowry's idea opened up a better way to attach the leading edge to the tail of Convair's supersonic B-58. As a result, Lowry will have an extra \$468 in his bank account.

The Hustler's leading edge is attached to the tail structure with piano-type hinges — dozens of close tolerance hinges through which a single hinge pin must be inserted.

"Threading the hinge pin" caused short tempers, broken hinge pins and a loss of time.

Lowry suggested that the yard-long hinges be fastened with nut



IDEA MAN — M. L. Lowry, Dept. 55 at Convair Fort Worth, won Employee Suggestion award for idea to use nut plates instead of lock bolts on leading edge of B-58.

plates and screws rather than by the old method of rigid lock bolts. It was a simple idea, but it works fine.

"The screws now are loosened and the pin slips in quickly and smoothly," Lowry explained. "It's no longer a problem."

The suggestion is typical of dozens accepted each month to help speed production of Convair's delta-wing bomber. The award — \$468 — represents one-tenth of the total savings for one year.

"It will help build a room on my house," Lowry said. "And some of it will probably go toward my vacation next month."

Truck Drivers Score In Safety Contest

Convair Fort Worth's commercial fleet drivers scored a first place safety award for 1957-58 driving, according to Fred Temple, chief safety engineer.

The group is made up of employees who regularly operate trucks outside the plant in city traffic. Only four minor property damage accidents were recorded in some 422,000 miles of driving.

The record was good enough for the first place award for firms driving over 100,000 miles per year, given by the Fort Worth chapter, American Society of Safety Engineers. Some 21 drivers and 31 vehicles are involved.

FW Pay Boost Involves Vast Tabulating Task

(Continued from Page 1)

by Office Employees International Union and International Brotherhood of Electrical Workers when details are completed.

Handing employees their checks will be the end of a long road which started back on May 14 when Convair announced the first group of increases.

J. L. Budros, personnel manager, said the first step was for the personnel department's wage and salary section to notify the general and industrial accounting departments of the increases, and the manner in which they were to be computed.

For the hourly employees affected, the increase was eight per cent or 17 cents per hour, whichever was the greater, computed to the nearest one cent. In addition, there also was an added five cents per hour for employees in factory labor grade 1; three cents for employees in grade 2; and one cent for employees in grade 3.

Salaried increases were 8 per cent of the employee's monthly salary to the nearest \$5 up to a maximum of \$100.

Payroll section of general accounting then requested tabulating section of industrial accounting to compute each pay increase and establish records at the higher new rates.

"With the complexity of the formulas and the thousands of rates involved, it was a pretty good workout even for the machines," said Wallace Jay, general accounting manager.

Erle G. Hill, industrial accounting manager, agreed. Without electronic calculators, arriving

at the new rates might have taken weeks. But it didn't.

The people necessary to keep the job rolling worked overtime in personnel, general accounting and industrial accounting.

In tabulating section, the rate increase formulas were wired into the IBM 604 electronic calculator. As cards were inserted giving employees' old rates, the machine computed new rates and related information at a speed of 100 per minute.

Detailed information showing each employee's name, his old rate, and his new rate was then produced automatically from the cards by means of a tabulating printer.

That—still—was only part of the job. From the tab lists, payroll section had to make for each employee a new entry on the payroll record card which keeps a historical record of the rates made by each employee from the date he begins work at Convair.

Also from tab lists, personnel department had the job of making some 34,000 entries on employee personnel records.

One set of records required more than 17,000 postings in the personnel files of employment section in personnel department. In addition, the changes also had to be posted in each department for each employee of the department—another 17,000 postings.

With all this, it still remains for the general accounting and industrial accounting departments to get out the regular paychecks week after week—and to sandwich in between the 17,000-plus extra checks which employees will receive about June 11.

Daingerfield Son, Top Student Of Class, Wins '58 Scholarship

Reggie Talley, son of J. W. Talley of Dept. 2 at Convair Daingerfield is winner of the division's 1958 Convair Sons scholarship award. His selection was announced by J. E. Arnold, division manager.

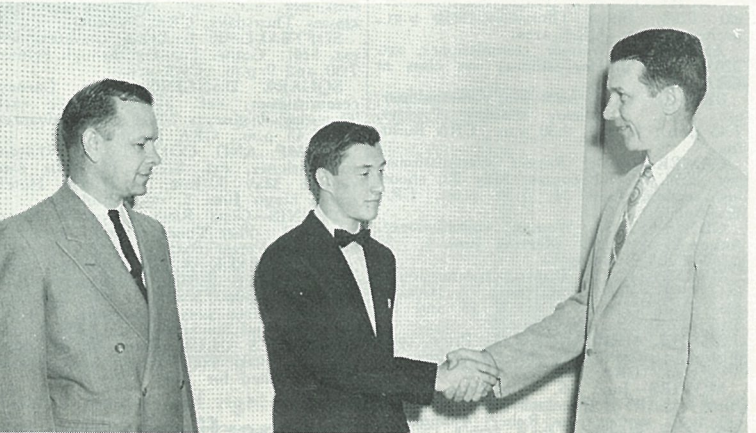
Reggie is valedictorian of the 43-member graduating class at Paul H. Pewitt High School at Omaha-Naples. He maintained a four-year average of 96.46.

He is a four-year letterman with the Pewitt marching and concert bands and was vice president of the bands. He also is a member of the Tri-County Band which is composed of the best musicians from Morris, Titus and Marion Counties.

He was business manager for the school annual, "Brahma Corral," and was on the student council. He was recipient of the Paul H. Pewitt Award presented each year to the senior boy who has contributed most to the school.

Talley's hobbies include photography, radio and TV repair, amateur radio, and radio-controlled airplanes and boats. He will study electronics at Southern Methodist University.

The scholarship provides tuition plus \$250 each year in cash. It provides for a complete course leading to a degree in engineering or an allied science.



DAINGERFIELD WINNER—J. E. Arnold, Convair Daingerfield manager, congratulates Reggie Talley, winner of Convair Sons scholarship. At left is J. W. Talley, Reggie's father.

Nephew of Inventor Recalls History of B-58 'Gatling Gun'

Convair Fort Worth's supersonic B-58 Hustler—armed with the newest "old-fashioned Gatling gun"—is of special interest to a New Orleans man.

In a letter to August C. Esenwein, FW Division manager, Maurice B. Gatling—nephew of the inventor of the machine gun—recalls the gun's history, and suggests an even newer application of the principle developed by his great uncle.

The first machine gun, or Gatling gun, was a rotating cluster of barrels.

"The Gatling gun was rejected by an Army firmly committed to the musket," Gatling said. "It was grudgingly recognized only after its success in the Spanish American War.

"Even after the gun was accepted, the Army 'modified' it by eliminating all but one barrel, which required cooling ingredi-

ents. Only in the last part of World War II was it realized that heating could be largely overcome by restoring multiple barrels."

Gatling suggests the same principle might be used during re-entry of guided missiles.

"Why not use ball-bearing panels, continuously revolving all outside surfaces so that no surface would be subjected to atmospheric friction for more than a brief instant?"

No such application of the idea is foreseen at Convair FW.

Gatling now is general counsel of the Anti-Communist Committee of the Americas of New Orleans.

The B-58's defensive tail gun is a six-barrel weapon patterned after the Gatling gun (Convairity, Feb. 5, 1958). It develops a staggering rate of fire—some 7,000 rounds per minute.



Published every other Wednesday by Convair, a Division of General Dynamics Corporation, for the benefit of Convair people everywhere.

Convairiety

Vol. 11, No. 13

Wednesday, June 25, 1958

Fort Worth and
Daingerfield
EDITION

Fort Worth news office:
ext. 8245; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



MANY WHEELS—Thousands of cars are parked on Convair Fort Worth lots each day. Most areas soon will be resurfaced. Lot three, foreground, was repaved about two years ago.

43-Acre Area Will be Paved

Work will begin on paving 43 acres of Convair Fort Worth's parking lots this month, including lots one and two, and the nuclear parking area.

The resurfacing job will require about 72,000 sacks of cement, 23,000 tons of asphalt, and 35,000 traffic markers to show parking spaces. About 12 miles of new bumpers will be installed.

Shep Lampkin, Dept. 25 field engineer, said work was due to begin on the nuclear lot June 23, and that work on lots one and two will start in about 10 days.

"There will be some inconvenience during the period of work," he said. "We will try to keep people well informed as to what areas will be closed."

Work on the nuclear lot will take about two weeks, and the job on the larger areas is expected to be complete about 90 days after start of work on that section.

The larger lots will be resurfaced in "quarters," with each

(Continued on Page 6)

Test Director Outlines What's Ahead For B-58

Waiting under a blistering Texas sun, the Air Force colonel beamed as one of Convair's supersonic B-58 Hustler bombers touched down on the Carswell Air Force Base runway.

At controls of the ship was the first crew of the B-58 Test Force at Carswell AFB. It was the crew's first flight in a B-58.

The officer "sweating out" the flight was Carswell's Col. David M. Jones, B-58 test director for the Air Force's new development concept.

If the post-flight handshakes were unusually warm, it was because Jones is vividly aware of the importance of the joint ARDC-SAC-Convair effort. This first flight was the Test Force's first step.

Flying the B-58 were Maj. K. K. Lewis Jr., Maj. James P. Zwyer, and Capt. P. E. Amidon. The three men make up the first of what will be an ever-growing number of trained crews that will literally fly the Hustler through remaining Air Force

tests and into operational status.

Jones explained that the new development method will get the contractor, ARDC and the using command all into the test picture. This will avoid duplication of effort toward an operational weapon system.

"It is a sound system which can effect savings in time, and will result in a better article for the Air Force inventory—and do it quicker," Jones said.

"Under the test force system, we can perform all required testing on a combined basis at a central host center."

Hub of the test force task at Carswell will be in a corner of the old operations building, where Jones and his deputy commanders, Col. H. J. McIntire and Col. Richard E. Evans, go over daily tasks with their crews.

Jones said the new development concept calls for three categories of testing. In Category 1, bulk of the responsibility is with Convair, but with ARDC and the using command already in the picture.

Category 2 finds ARDC predominant in the test role, but with the using command even more in the picture. In Category 3, the using command takes over, with ARDC and the contractor in an advisory capacity.

Category 1 is a preliminary test of the airplane, Category 2 proves the plane's systems, and Category 3 is an operational test period.

The Carswell B-58 Test Force is concerned primarily with Category 2 tests, but there will be no distinct line between Category 2 and Category 3.

"Many of our people will go to Strategic Air Command," Jones said. "In that way we will preserve the know-how in follow-on testing."

"This system gets the using command (SAC for B-58s) into

(Continued on Page 6)

Con-Trib Donates Artificial Heart To Citizens of FW

Gift of funds for a mechanical heart and lung to enable surgeons to perform critical heart operations heretofore impossible in Fort Worth was announced today by Convair Employees' Con-Trib-Club, Inc.

The new machine was built specifically for the Fort Worth Heart Association — with Con-Trib footing the bill. Also provided was all the equipment and instruments required for such operations.

Previously, a heart surgery patient in Fort Worth had to be sent to Houston.

Con-Trib's gift will benefit not only Convair employees, but any patient in any Fort Worth hospital who may need heart surgery, said Grady Henry, Con-

Trib's budget committee chairman.

Henry and another Con-Trib board member, M. A. Stewart, worked closely with the heart association in making the arrangements.

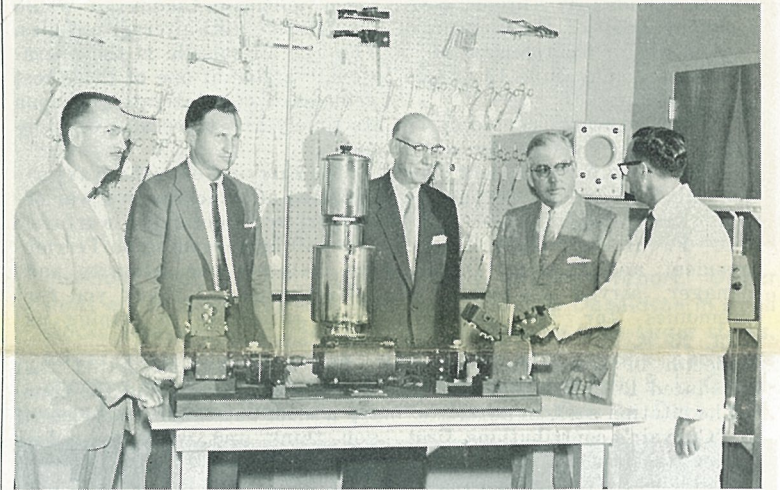
The artificial heart and lung enable surgeons to stop a patient's own heart while repairs are made.

Dr. Antonio Rodriguez-Alvarez, research director for the heart association's heart laboratory, has been putting the equipment together for about a year. This week, it was complete.

Employees' Con-Trib-Club donated some \$6,000 for purchase of the equipment.

At this week's simple ceremony, Fort Worth physicians and

(Continued on Page 6)



CON-TRIB HEART—Dr. Antonio Rodriguez-Alvarez (right) explains heart machine at unveiling. It is gift of Convair FW Employees' Con-Trib-Club to Fort Worth Heart Association. Left to right are Dr. Robert Carr and Dr. James McBride, chest surgeons, Harry W. Phillips, association president, and Grady Henry of Con-Trib board of directors.

All Retired Employees Remain CRA Members

Retired employees at Convair Fort Worth retain Convair Recreation Association privileges, according to M. A. "Milt" Stewart, CRA president.

Courtesy cards have been sent to 119 retired people to be used for identification at Convair Recreation Area. They entitle the bearers to all privileges of the area.

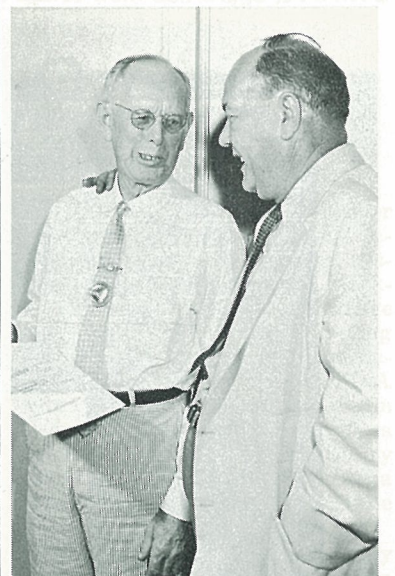
"Convair is interested in helping all its employees achieve a happy retirement," Stewart said. "Many letters of appreciation have come in from employees who received the cards."

"They assure each employee a chance to continue participation in Convair's recreation program after retirement, and we hope that each retired employee will continue to consider himself a member of the Convair family."

An expression of appreciation came from D. E. Herndon, formerly of Dept. 25-3.

"Such consideration," he wrote, "makes me feel very happy to know that I am still a member of the best concern that anyone could work for."

The courtesy cards are mailed out from the CRA office after the employee's retirement has been processed.



SENIOR MEMBER — M. A. "Milt" Stewart, CRA president at Convair Fort Worth, right, presents CRA courtesy card to E. S. Blackburn, who retired June 15. Cards have been sent to 119 retired employees.



TEST COMMANDER—Col. David M. Jones, center, discusses B-58 bomber with J. T. Cosby, manager of customer service, right, and G. S. Green, assistant manager. Jones will command 6592nd Test Squadron (B-58) at Carswell AFB.

Survival Equipment on Display For Club Meeting Tomorrow

Convair Fort Worth's flight department and the men who do the division's flying will be featured tomorrow night (June 26) at a meeting of the Management Club at Lake Worth Casino.

B. A. Erickson, manager of flight, is program chairman. The session will highlight the various flight operations, with regular flight test crew members on the program.

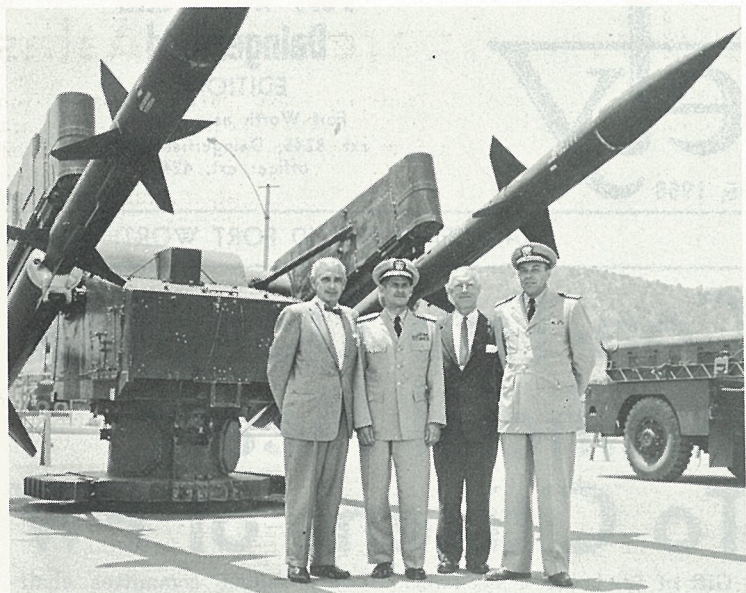
Theme of the meeting is "Know Your Flight Test Programs and the Men Who Do the Flying."

The meeting begins at 6 p.m. with a social hour.

During the social hour, flight personnel will demonstrate survival equipment, including various types of pressure suits, parachutes, and survival kits.

Tickets and NMA membership cards must be shown at the door for admittance, according to Bruce McHarg, club program chairman. The tickets were distributed free to club members.

A barbecue chuck wagon dinner will be served.



PRINCIPALS—From left, J. V. Naish, president of Convair; Rear Adm. T. A. Ahroon; Charles F. Horne, Pomona Division manager; Capt. Robert B. Heilig. This was taken at ceremony honoring Pomona Division.

Pomona Division Wins Navy's Award of Honor For Developing Terrier

Convair Pomona this month received an Award of Merit from the Secretary of the Navy for "outstanding service to the Department of the Navy in the field of guided missile development and technology."

The award was presented by RAdm. Thomas A. Ahroon, USN, assistant chief of the Bureau of Ordnance for planning, at a formal ceremony June 13 at Convair Pomona.

The award was accepted on behalf of the division by J. V. Naish, Convair president and General Dynamics Corporation senior vice president.

C. F. Horne, Convair vice president and Pomona Division manager, served as master of ceremonies for the program. Capt. R. B. Heilig, USN, Naval Inspector of Ordnance, Pomona, introduced Rear Admiral Ahroon.

The citation said, in part:

"Convair's contributions, first as an associate contractor in the Bumblebee program and later as prime contractor for the major electronic and aerodynamic components of the Terrier missile, have been responsible in large measure, for the orderly development and early introduction into the fleet of this advanced weapon."

"This certificate acknowledges your merit and is something of which you can be proud," Rear Admiral Ahroon said in making the presentation. "It took not one, but all of you to earn this citation of outstanding achievement."

"As to missiles, Terrier has the distinction of being the Navy's first surface-to-air guided missile to become operational. The confidence of the Navy in Convair, when you were selected as the prime contractor for development and production, has been justified."

"In 1945 the characteristics of

vehicles moving at supersonic speeds were largely speculative. Supersonic test vehicles, designed and fabricated by Convair, were used to investigate this new phenomenon. Test vehicles were first launched in 1946. It soon became apparent that, with refinement, these vehicles in themselves would be effective anti-aircraft missiles. The Terrier missile is the operational version of one of these test vehicles. I congratulate you upon its timely and successful development."

"In carrying out (the Navy's) mission of attacking in a war of anger, or in deterring warfare, we will be depending on Terrier to maintain our integrity and effectiveness. I thank you for your assistance in helping us with our mission."

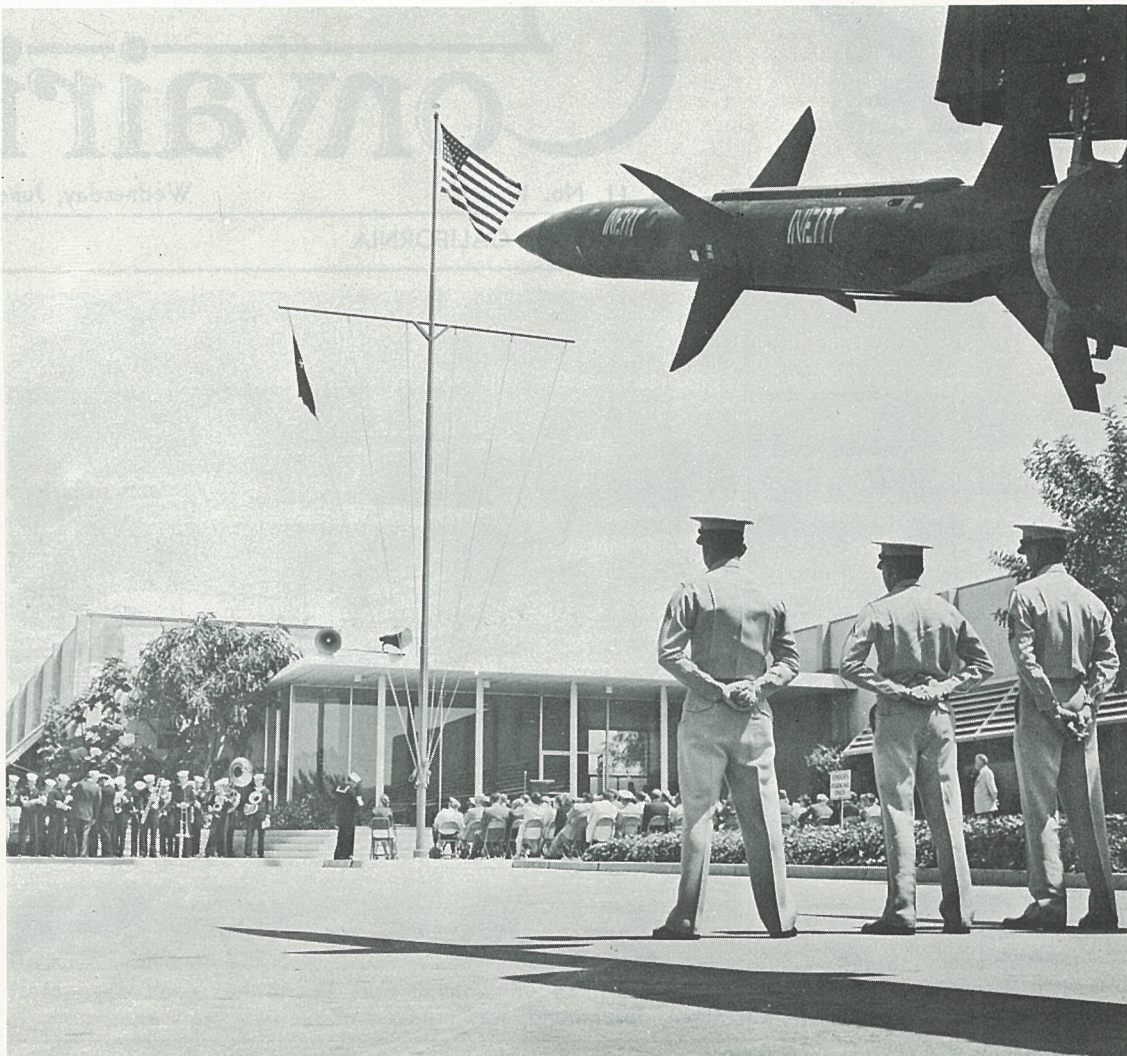
The admiral also stated that Convair would be doing the country a most outstanding service "if you think and work to reduce costs."

In accepting the award with "unabashed pride," Naish served notice that "as of 1 p.m. today, we are working toward our second award."

"In the technological phase of the present cold war, we in industry are the front line troops," Naish said. "In the past 'hot' wars, the corroding disease of the soldiers in the trenches has been battle fatigue. The 'disease' which can have much the same effect on us is complacency."

"We can take justifiable pride in the Terrier. But if we do not continue to make technological advances and improvements, the Terrier will be useless 10 years from now."

"We must earn additional awards, or we will have failed not only the Navy and ourselves, but we will have failed our children and our children's children."



IMPRESSIVE—This was scene at Pomona Division this month during ceremony when Navy Department honored division for "outstanding service . . . in the field of guided missile development and technology." Marines from First Marine Anti-aircraft Missile Battalion, Twentynine Palms, Calif., manned twin Terrier portable launcher.



SPEAKER—Addressing guests at Pomona ceremony is Convair President J. V. Naish, who spoke following presentation of Navy certificate of merit. Ceremony was held June 13 at entrance to Pomona plant.

F-102As Score Top Availability Record at Various ADC Bases

F-102As in operation from approximately 27 bases of the Air Defense Command have established a record low for aircraft out of commission because of parts.

The record was established during the month of April when

the total combined ACOP (aircraft out of commission because of unavailability of parts) and ANFE (not fully equipped) rate was 3 per cent for all F/TF-102A aircraft operated by ADC squadrons, according to O. W. Harper, chief of interceptor service at Convair SD.

Contributing to the accomplishment was the remarkable record reported by the 438th FIS at Kinross AFB, Saulte Saint Marie, Mich. with a zero rate of ACOP for seven consecutive months, through April.

The overall low was reached in the comparatively short time of 24 months since the first F-102A became operational with ADC. The average rate being maintained by other fighter-type aircraft is 6 to 8 per cent, reached after approximately 30 months of operation.

Lemke and Ferrara To be Moderators

G. A. Lemke and Paul D. Ferrara, Convair SD design engineers, will moderate the Tuesday (July 1) meeting of the San Diego section of IAS at the IAS Bldg., Harbor Drive, 8 p.m.

The panel meeting will deal with new design problems associated with today's high altitude, high speed jet transports.

Convair Driver Tops Contest

A. M. McNeil, who boasts a seven-year accident-free record while driving for Convair Fort Worth, is the division's driver of the year.

McNeil was presented with a gold engraved wrist watch for his part in helping Convair win the 1958 Group 2 fleet safety contest sponsored by the Fort Worth chapter, American Society of Safety Engineers.

Group 2 includes firms which operate trucks more than 100,000 miles per year. The division was runner-up in the group last year.

F. R. Temple, chief safety engineer, said McNeil's record "contributes a lot" to keeping the division's driving record one of the best in the city.

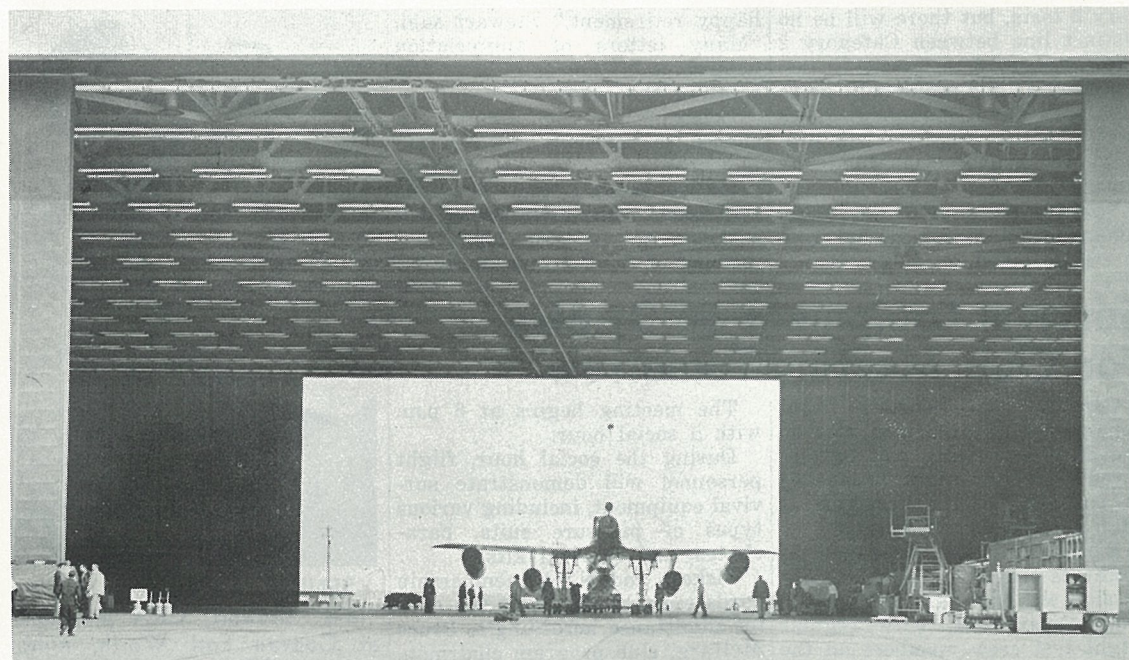


TOP DRIVER—A. M. McNeil inspects watch he won as Convair Fort Worth's outstanding driver of year.

Toastmaster Club Tops For SD Area

Convair Toastmasters (Club 457), composed of San Diego and Astronautics Division employees, has been named the outstanding club of the year in the San Diego area.

The honor was won over 44 clubs in this area. Ed Caldwell (Dept. 188-SD) is president of the Convair group. Grant Christensen, assistant to Convair's vice president-engineering, is area governor.



TEXAS SIZE HANGAR—Convair's supersonic B-58 Hustler is dwarfed inside Convair Fort Worth development hangar—once a tight fit for two B-36s. Six B-58s can be put inside. Huge sliding doors on each side of hangar are seldom open at same time.

Unique Support System Provides Rapid-Fire Spares for Atlas

Convair Astronautics, winner of plaudits for its unique support system for Atlas ICBM research and development (R&D), is expanding its assist operation with the creation of a new support center.

The center is being established in Bldg. 4, SD Plant 1, and is slated for completion late this summer. W. W. Pierce, currently assistant to E. A. Reynolds, manager of product support, will be in charge.

W. V. Gillette has been named chief of supply for the new center, while F. L. Shuter becomes general supervisor of R&D supply. Shipping, formerly a part of the government furnished property (GFP) group, remains in material department under J. C. Ruzich, chief of stores and traffic.

The GFP function, set up almost three years ago as a pioneer unit, is responsible for the hearty "well done" in the R&D program.

(GFP at Astro is unlike any similar group within Convair. Instead of handling just those items supplied by the government for the Atlas, Astro's GFP is responsible for every single item used in the program. This goes for Convair-produced components as well as those turned out by associate contractors. It ranges from ground support equipment to test supplies and even the missiles themselves.)

From the beginning of the Atlas program the Air Force has instructed Convair simply: "No delays can be tolerated—see to it!"

From there Astro took the "ball," setting up a system unlike any ever devised before. It stretched from coast to coast, included all test bases, took in associated contractors, and involved extensive air and land supply routes.

Many units helped in establishing the system. However, material units under Shuter and product support functions under F. R. Gaughen, chief of support logistics, were primarily responsible.

Many problems were ironed out by a master logistics review committee which held daily meetings with representation from various departments and functions.

From early design stages spares analysts reviewed each drawing, selecting parts or components likely to be required as spares. These items were coded, recorded and ordered during production. Design changes were handled in the same fashion.

"Provisioning time was a major item," Shuter and Gaughen report. "Most Air Force contracts allow up to 17 months stock. We provisioned for 120 days at test bases and a maximum of 10 months for the entire program."

Thus, a fool-proof means of accurate and continuous checks on stocks as well as the ability to respond instantly to changes was necessitated.

For this Astro set up a leased wire communications system tailored to the needs. Each test base, plus associate contractors, set up

a stand-by GFP stock area. A central center, records control and master warehouse was established in San Diego. San Diego was also a switching center for communications. Daily inventory reports were made over the leased wires via perforated tape. Processed through IBM equipment at the scene, an up-to-the-minute stock outlook was provided. In addition, the leased wires were used for all messages, reports, etc., pertaining to material operations. Operated 16

hours daily through the week, the switching center accounted for 112,000 messages during 1957.

Logistics representatives from every unit concerned met every two months to formulate policies. Convair men alone traveled the equivalent of four-and-a-half times around the globe on these matters during 1957.

Dispatching of spares, with manufacturing control handling expediting at all points between GFP units, was accomplished primarily by air. Only the mis-

siles, which were moved via trailers, took land routes.

One indication of the importance the Air Force vested in the program was an offer to provide, on call, immediate transportation should a test schedule appear in danger of delay. At least once a spares item rode coast to coast as a "passenger" aboard a jet trainer.

An unusual aspect of the program was a periodic review by support logistics and representatives of other departments of

high-cost parts removed from missiles static tested to the duration of their usefulness. Those found to be in good shape were re-worked, then returned to regular spares stocks.

Astronautics contemplates no drastic changes in this successful support of the R&D program within the new center. Instead, it is expanding these operations to take in larger tasks being created through the establishment of Air Force operational units for the Atlas.



EXACTING BUSINESS—Astronautics-pioneered support system for Atlas development has been called "outstanding." Pictures show government furnished property at San Diego central warehouse. Upper left is communications switching center with Dottie Hogue and Marge Holtus. Leased wires span 6,035 miles, link all related units. Lower left shows Bernice Stark converting commu-

nications tape to IBM cards for daily inventory report. Upper shots are in stock area with Fred Razo and Bob Donaldson in small stocks area and F. E. Hansel and A. DeMoude with larger stores. Lower shots are of review area where used missile parts are checked for possible re-use. H. F. Richards is at left, E. L. Goodspeed at right. Richards is an inspector, others in Dept. 214.

'Convair Special' Bus Now Serves Astro

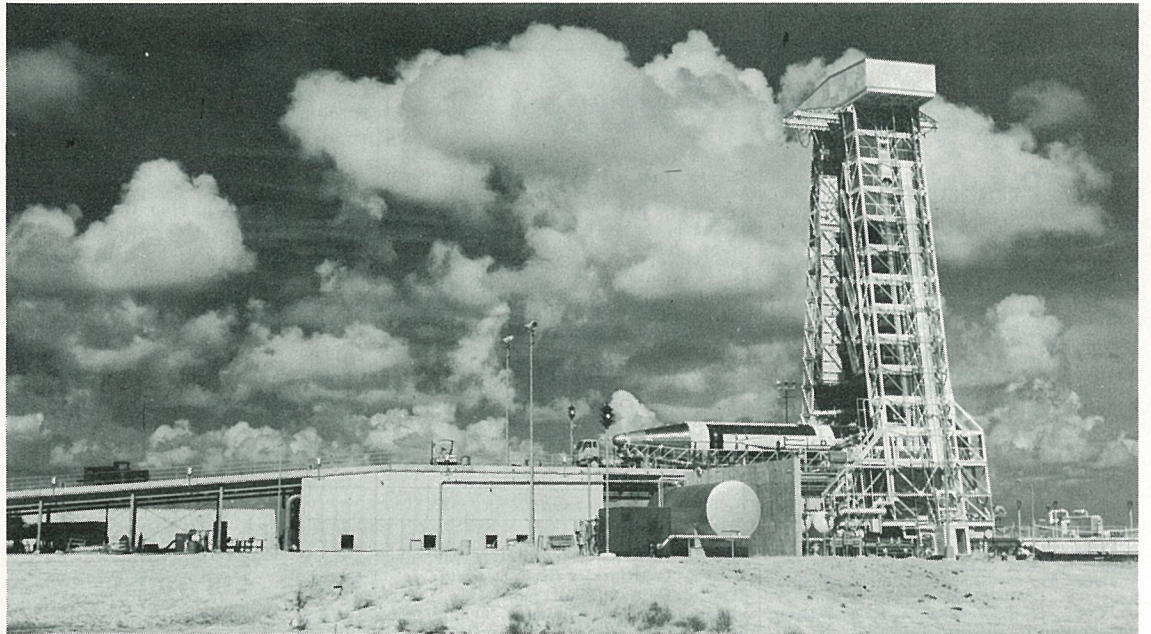
Effective early this week, one of the two "Convair Special" buses which make round trips daily from El Cajon has been diverted to serve Astronautics Division's new plant.

W. A. Fields, Dept. 758, driver, said the bus will follow the same route from Bostonia, through El Cajon, Fletcher Hills, etc., but will terminate at the new site.

Check Cash Service Set up For Astro

A check cashing service is now in operation for the convenience of personnel at the Astronautics Kearny Mesa site.

The U.S. Grant Check Exchange will cash employees' checks at locations set up at Gate 7 and Gate 8 each Friday from 3:15 to 4:15 p.m. and from 4:15 to 5:15, said Dick Mitchell, chief of Astro employee services.



FAR AFIELD—Typical of distant bases rapidly served with Atlas spares from San Diego is AFMTC on Atlantic coast.

Astro Factory Building Half Occupied As Gradual Mfg. Build-up Continues

Convair Astronautics began manufacturing operations in its new Kearny Mesa plant this month as a gradual shift of factory personnel and equipment continues.

The new factory building is roughly 50 per cent occupied. As many as 250 manufacturing workers are being shifted weekly in a move program that will stretch well into September.

Thus, Astro manufacturing operations are being conducted in two locations, Plant 1 and the new plant. This is in keeping with a plan of uninterrupted production during moves. Equipment and facilities are set up at the new site and are ready for use as most employees transfer.

Work began this month on a 200x56-foot training center. Slated for use by mid-September, the

center will have six classrooms and three laboratories. Initial work is the first of three phases planned for the structure located south of Bldg. 4.



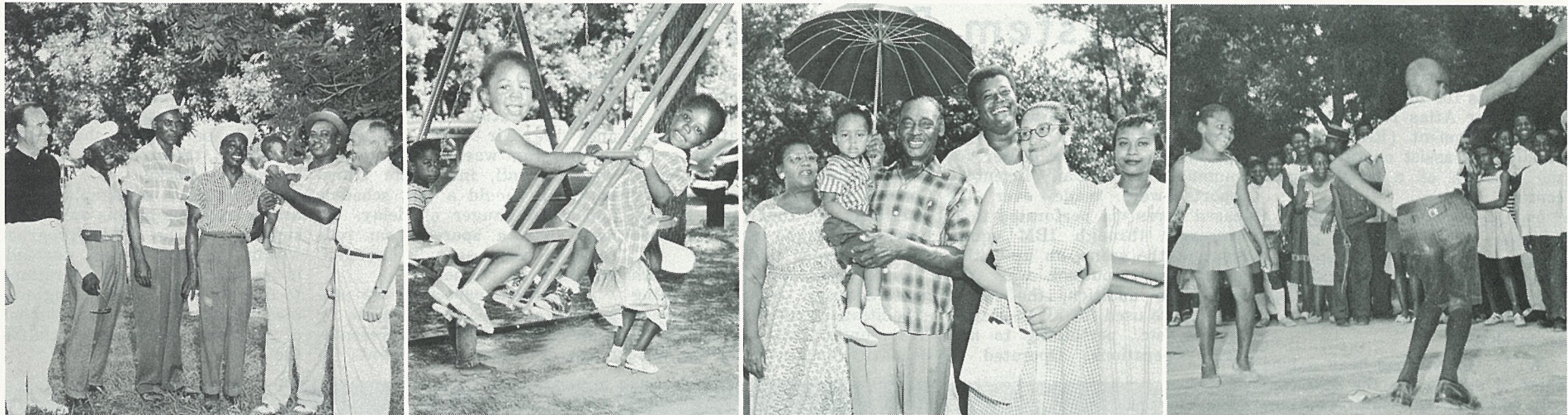
"I'm good at housework and children, but my wife wants me home nights."

Landscaping work is under way on the front of the reservation. Underground sprinkler systems are being installed. Black-top paving between the office buildings and the engineering laboratories building will be accomplished in the near future. A vibration laboratory is now in use and work has started on a systems lab east of the factory structure. Additional parking area will soon be added south of the factory building.

Meanwhile, what will probably be the largest single item to be moved, a hydrodynamics test tower now located at Plant 1, was scheduled for transfer this week. The contracted project will include special routing to clear its unusual height, plus the removal of some stop lights along the intended route.



"Just because we share a car pool and race to the same time clock, it doesn't give you the right to keep referring to me as your 'running mate'..."



JUNETEENTH—Smiles were everywhere at Juneteenth activities in CRA area. At left, Levi Cox, T. Brown, R. Mayfield, and L. E. Morgan welcome special guests. F. E. Chambers and August C. Esenwein. Morgan holds Reginald Armstrong, son of W. D. Armstrong. In next pictures, children test swings, and family of R. H. Taylor uses umbrella while waiting for food. At right, youngsters cut capers in jitterbug contest.



BARBECUE!—R. Sewell, Dept. 25, appears mighty happy with three plates of barbecue. Two of the plates were for children.

Second Shift Sees No-Hitter Recorded

H. O. Davis pitched a 11-0 no-hit game this month as the second shift league-leading Dept. 28-4 downed Dept. 6-6 in softball. Davis chalked up 11 strike outs in the five-inning game. He faced only 17 batters.

Women to Resume Meetings in Fall

Mary Smith and Winnie Leonard, co-commissioners of women's activities, announce suspension of women's club meetings for the summer. Next session will be held in September. A fashion show is planned at that time.

Appetites Big At CRA Picnic On Juneteenth

If food is an indication, CRA's Juneteenth party was a tremendous success. Employees consumed 1,500 pounds of barbecue beef, 500 pounds of sausage, and gallons and gallons of orangeade.

The picnic featured games for the children, bingo for the women, and dancing for everyone. Two combos played for dancing on concrete slabs in picnic area number 1.

And there were some fancy capers—with wholehearted support of spectators who jammed around the dancers — as children tried for "jitterbug" prizes.

Waltzing into the winner's circle were Carolyn Kindle, Linda Merlon, Olivia Cleveland, and Jacquelyn Hampton. Then, grownups took to the floor. Winners were Charles Brown, an employee in the cafeteria, and his wife.

James Charles Rubell took the award for individual dancing.

Big prize of the day, a 17-inch portable television set, went to C. F. Guyden of Dept. 25-4 as a door prize.

Withering heat failed to dampen the enthusiasm of hundreds of people who drove to CRA for the fun. Children formed volleyball teams, played basketball, and rode horses in the ranch area.

Cold Orangeade was on tap throughout the day, and there was plenty of barbecue for everyone. The party committee included Levi Cox, Curtis Parrish, R. Mayfield, E. C. Watson, L. E. Morgan, T. Brown and E. Brown.

Special guests on hand were August C. Esenwein, division manager, Mrs. Esenwein, F. E. Chambers, manager of industrial relations and security, and Mrs. Chambers.

CRA Art Viewers Select 'Portrait'

An oil by Minnie Caldarola, "Portrait of Mother," captured the fancy of people who visited the recent art show at CRA clubhouse. It also captured first place.

The first place was good for a new oil painting set, which was presented by E. D. Weimer, commissioner. Winner was determined by popular vote.

"East Boston" by A. E. Gilligan was voted number two, and "The Clown" by Betsy Collier received the third highest number of votes.

CRA Has Coupons For 'South Pacific'

Special discount coupons for Rodgers and Hammerstein's "South Pacific" still are available at the CRA office at the 50-foot aisle.

The coupons allow holders to purchase any \$2.40 ticket for \$1.50. The offer is good until July 5. The Todd-AO picture is showing at the Wynnewood Theater in Dallas. Coupons must be exchanged at the box office at least 30 minutes before show time.

He Couldn't Control Quality of This Program; It Inspected Him!

Perhaps J. Y. McClure had an inkling that something was in the wind, but the shock still was very real.

McClure was being honored with a surprise "This is Your Professional Life" program by the Fort Worth-Dallas section, American Society for Quality Control. McClure is national vice president of ASQC.

Newsmen and cameramen who crowded into the meeting at Western Hills Inn almost tipped off the secret.

McClure, manager of quality control at Convair Fort Worth, ostensibly was at the meeting to introduce the speaker, August C. Esenwein, Convair FW manager. He made the introduction.

Then, as powerful lights flooded the room, McClure was given the seat of honor. Visibly surprised, he saw friends dating back to early days of aviation parade across the stage. Each unfolded a chapter in McClure's colorful career, which includes 18 years with Convair.

Among visitors was A. W. "Tony" LeVier, famous flier who won the 1938 national air races at

Cleveland in an airplane called "Firecracker." McClure was the plane's mechanic.

LeVier now is director of flight for Lockheed Aircraft Corporation, Burbank, Calif. Others on the program included C. C. Flagg, and T. E. Hoffman of Convair FW; George Covington, Convair SD; Lt. Col. L. J. Hutton, AF plant representative, Convair FW; and Sam Kelly, chief of AF quality control.

Also, T. L. Hoffman of San Antonio; Herbert B. Epstein of Chance Vought; L. S. Eichelberger of Milwaukee, Wis.; Paul Allen of Beech Aircraft Corporation, Wichita, Kan.; Richard Oliver of Washington, D. C.; Amon Carter Jr. and Paul Hayward representing Fort Worth YMCA; Dr. Howard Buxton representing the Lions Club; and Joe Burns representing Little League baseball.

Lloyd Turner, special assistant to the Convair FW manager, was master of ceremonies.

D. B. Tallon of Convair FW was installed as new chairman of the group.



THE FACTS—Lloyd Turner checks facts in book as he questions A. W. "Tony" LeVier about life of J. Y. McClure, seated. Mrs. McClure looks on.

The Passing Years...

Fort Worth

The following service emblems are due during the period ending July 1 through July 15:

Fifteen-year: Dept. 4, B. T. Cooksey, R. K. Humble; Dept. 6, W. W. Hill, G. G. Johnson, A. A. Lanzara, H. B. Stanley Jr. Dept. 14, W. B. Reavis, C. L. Solomon; Dept. 16, A. D. Taylor; Dept. 18, A. S. Cooper, D. L. Hodges, H. E. Miller; Dept. 20, E. Holt.

Dept. 22, R. M. Bennisson; Dept. 24, R. R. Brubaker, H. G. Craig, W. J. Jarrott, A. E. Northcott Jr.; G. E. Pringle, G. W. Stell.

Dept. 25, R. W. Downey; Dept. 27, J. E. Satterfield; Dept. 28, C. F. Gilley; Dept. 29, G. Hazlewood, E. Reese, B. C. Schick.

Dept. 30, R. H. Perkins; Dept. 31, J. P. Chamberlain, J. N. Prather, J. C. Purcell; Dept. 32, P. D. Austin, R. Fillmore, J. A. Stafford.

Dept. 36, M. F. Britt, H. B. Wade; Dept. 46, E. H. Thornton; Dept. 48, D. T. Bradley, O. J. Davidson, J. E. Edwards; Dept. 54, J. D. Bridgewater, H. A. Wyatt.

Dept. 56, B. B. Fortenberry, O. L. Scay; Dept. 57, W. P. Coleman, E. E. Miller; Dept. 59, J. C. Hawkins, N. P. Taylor; Dept. 62, R. E. Cagle, B. R. Plumlee.

Dept. 64, A. D. Branch, R. A. Fetter, A. Crumley, W. L. Orr, C. R. Cleveland, H. O. Dickerson, W. J. Dominey, A. A. Leaverton, L. C. McClaffin, G. W. Reynolds, E. R. Martin, D. A. Hawkins, E. M. Flynn.

Dept. 65, T. Cannon, C. B. Carter, V.

L. Long, P. J. Walton, A. C. Rydel Jr.; Dept. 81, L. E. Callaway, F. D. Holland, J. M. Moncrief; Dept. 82, S. M. Moon; Dept. 96, J. W. Stogsdill.

Ten-year: Dept. 4, B. G. Boyd, F. A. McKay, H. L. Rice; Dept. 6, H. H. Bagby, L. F. Gray, M. R. Runnion, W. D. Wilson, E. L. Zeiller.

Dept. 9, S. L. Henderson Jr.; Dept. 12, M. F. Keller; Dept. 20, J. E. Sparks; Dept. 22, H. R. Bales, B. R. Harper; Dept. 24, G. E. Pearson.

Dept. 25, B. Scott; Dept. 27, O. W. Burns, F. H. Jones; Dept. 29, J. B. McGaughey; Dept. 30, E. L. Phillips; Dept. 32, E. E. Moore, J. A. Moore.

Dept. 36, T. Daniels Jr., G. M. Morrison, W. A. Stoneman Jr.; Dept. 46, W. A. Cheatham, W. F. Hale, J. W. S. Ham, D. J. Holley, A. B. Williams.

Dept. 54, F. W. Bartoo, D. V. Jiles Jr., J. Randolph, L. M. Roberts; Dept. 55, E. L. Brewington; Dept. 56, C. L. Hicks, V. A. Hockett; Dept. 57, C. E. Davis.

Dept. 58, C. O. Williams; Dept. 59, G. V. Oldham; Dept. 64, C. H. Brame, U. E. Fisher; Dept. 74, G. R. Hall; Dept. 75, C. L. Ely Jr., J. E. Butler.

Dept. 77, W. H. Collins, W. L. Nunlee; Dept. 81, J. E. Evans, J. C. Hawkins, G. Rice; Dept. 82, J. D. Anderson, W. H. Trevathan; Dept. 85, J. A. Mitchell; Dept. 96, J. D. Wood.

Dangerfield

Fifteen-year: Division Manager J. E. Arnold; Dept. 5, C. E. Edrington.

Ten-year: Dept. 2, H. R. Miller, F. T. Smith; Dept. 3, M. E. Snodgrass, R. Adkins Jr.; Dept. 8, D. J. Glover.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective June 9, are:

Dept. 6: to design engineer, J. W. Mullen; to senior design engineer, R. M. Kemmerer; to design specialist, M. K. Witt Jr.; to nuclear engineer, T. Johnson, B. R. Uzzell; to test engineer, R. M. Stuart; to senior test engineer, B. J. Goss; to flight test engineer, R. R. Smith; to project aerophysics engineer, C. W. Jiles; to structures engineer, J. D. Anderson; to structures group engineer, J. E. Hejl; to group engineer, H. D. Olsen, J. W. Shaffer.

Dept. 24: to assistant supervisor, B. J. Mills; Dept. 27: to quality control liaison man, R. M. Cleveland, L. F. Coy, J. B. Stephens; to outside inspection representative, E. D. Melton.

Dept. 28: to assistant supervisor, W. J. Jones; to chief chemist, M. J. Puma. Dept. 35: to aircraft maintenance specialist, F. E. Brinkley, J. M. Jensen, W. D. Lewis, G. S. McClendon, R. S. Watson; to customer service engineer, N. M. Galyen.

Awards

The following received Employee Suggestion awards totaling \$658.81 for the period ending June 3:

Dept. 3, M. W. Rogers, B. J. Keator; Dept. 24, J. E. Moilanen, E. J. Seilheimer; Dept. 27, J. C. Linnstaedt, B. H. Jones; Dept. 29, G. Hazlewood.

Dept. 30, E. L. Phillips; Dept. 32, E. C. Hunnicutt; Dept. 36, J. Henson; Dept. 46, R. H. Mauldin; Dept. 81, D. G. McKinney.

Retirements

GRIMES, Earl, Dept. 54. Original hire date Feb. 16, 1943 (FW), retirement effective May 29.

BENBOW, W. T., Dept. 81. Original hire date Mar. 22, 1943 (FW), retirement

effective June 2. Address, 4605 Birchman Ave., Fort Worth.

RUSSELL, J. F., Dept. 56. Original hire date Feb. 3, 1943 (FW), retirement effective June 9. Address, 3812 McCart, Fort Worth.

BLACKBURN, E. S., Dept. 24. Original hire date June 15, 1943 (FW), retirement effective June 13. Address, 802 Harris Ave., Austin 5, Texas.

Births

FOREMAN—Laurie Michelle, 5½ lbs., born May 19 to Mr. and Mrs. A. S. Foreman, Dept. 6-1.

WELBORN—Robert Byron, 9 lbs. 1½ ozs., born May 29 to Mr. and Mrs. B. Welborn. Mr. Welborn, Dept. 6-2; Mrs. (Latterle) Welborn, formerly of Dept. 24-7.

HINKLEY—Barbara Dawn, daughter, 4 lbs. 1½ ozs., born June 14 to Mr. and Mrs. E. C. Hinkley Jr., Dept. 6-1.

BLACKLOCK—Russell James, son, 7 lbs. ½ oz., born May 15 to Mr. and Mrs. J. R. Blacklock, Dept. 6-2.

Deaths

CALDWELL—Eleanor H., 30, Dept. 24-7, died June 6. Survivors are her husband and three sons.

Card of Thanks

We wish to express heartfelt thanks and appreciation for the thoughtfulness and kindness shown our family during our bereavement.

The D. L. Redmond family
Dept. 15

Lost and Found

FOUND—Two rods and reels below Eagle Mountain Dam. Owner may claim by describing. Contact J. T. Blankenship, ext. 8295.

★ Convairiety ★

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, news editor; Grayce Fath, Helen Pemberton.

FW Editorial Offices, Col. 71-C. Ext. 8245. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, news editor; Horace Craig, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., news editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

16 Get Medals At Astronomy Awards Program

Sixteen medals for meritorious contributions to CRA and amateur astronomy were presented by the CRA astronomy society at the group's award night program June 18.

Gold medals went to Dr. Herman Sehested, director of the Fort Worth moonwatch team; Donald Hennrick, program director for the CRA astronomy group; and Bill Stockman, who established CRA's astrophotography operation.

Silver medals went to Marvin Fox for educational achievement; and to George Craig, William Johnson, William Rapp, and Oscar Monnig for meritorious service.

Receiving bronze medals were Evalyn Kernodle, Joe Waggoner, Mary Gilligan, R. L. Jones, H. Craig, James Richter, C. E. Calvert, and Norman Cole. Bronze medals also are for meritorious service or educational achievement.

The awards were presented by A. E. Gilligan, astronomy commissioner. Monnig, nationally recognized amateur astronomer, was speaker at the session. He discussed meteorites, and displayed samples from his private collection.

150 Boaters Cruise Eagle Mountain

An hour and a half cruise of Eagle Mountain Lake was top feature of a 56-boat cruise of the CRA boat club this month. Cruise port for the 150 boaters was at Barnes Place.

W. E. Garrison, S. L. King and A. L. McKennon won a buoy race, and John Dennis, J. D. Jones and B. R. Harper took the predicted log race honors.

B. T. Frost, commissioner, said next cruise will be a two-day event at Possum Kingdom next month. A cruise of Eagle Mountain scheduled July 28 has been cancelled because of a conflict with the weekend cruise at Possum Kingdom.



MODEL—Judy Mears, employee in CRA office, proves that married women also can wear swim suits! She was model for camera club's "shooting session."

Texas' Top Archers To Try CRA Range

Convair employees are invited to watch the state's finest archers in competition as the Texas State Target Archery Association's annual tournament gets under way at CRA area July 4.

The 1958 tournament is sponsored jointly by Convair Recreation Association and the Panther City Archery Club. All competition except field events will be held on the CRA range.

"Nothing has been spared to make this the finest tournament possible," said H. L. Lucas, CRA archery commissioner. Lucas also is president of the state association.

Tournament headquarters will be Desert Village Motel. Invitations went out to 750 members of the association, and Lucas said a big field is expected.

Some 22 targets will be up for the meet, with four contestants shooting at each target. Events begin at CRA at 3 p.m. July 4, with second and third day shoots beginning in the area at 9 a.m. each day.

Don Hall, Dept. 65, will be field captain.

Tennis Tourney Entries Open At CRA Office

Entries for CRA's 1958 tennis tournament now are being accepted in the CRA office. Deadline for entries is July 3.

Gene Records, commissioner, said there is no entry fee. Balls and nets for the competition will be furnished. Games will be scheduled on clay courts in Forest Park, but can be played elsewhere by mutual arrangement of contestants.

Records said he expects this year's field will be about the same as that last season, when some 40 people competed in the singles event. Divisions will be mens singles and doubles.

Contestants, if they desire, may arrange to play games on two new courts in the CRA area, Records said. The Forest Park courts, however, are lighted.

An early entry is Chuck Samson, winner of last year's event and holder of the city championship. "He will be the man to beat," Records said. Records lost to Samson in the finals last year.

Golf Tournament Begins Saturday

Convair Golfers are set to square off this weekend in CRA's annual plantwide golf tournament, which begins Saturday (June 28) on city courses.

L. H. Armstrong, commissioner, said the low 32 handicaps and ties will comprise the championship flight. After 36 holes, the low 16 and ties then will battle for the crown, with others of the original 32 making up the first flight.

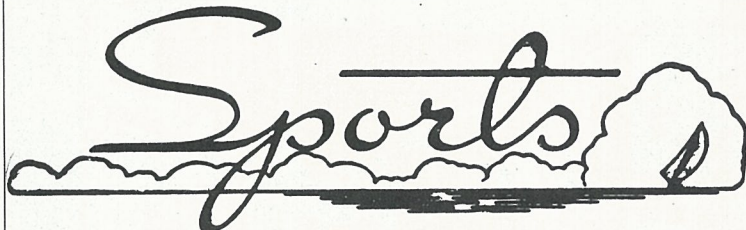
Championship and first flight will be 72-hole medal play, with one round played on each of the city's four municipal courses.

Management Club Plans Keg League

Convair Management Club bowlers are urged to get teams lined up for a 16-team league, which will bowl at 8:30 p.m. on Thursday nights. Anyone planning to have a team should contact A. J. Baskin, club bowling chairman, R. L. Pearson or G. E. Symm.

FW Men Fourth In ABC Bowling

Two members of the second shift Six Little Angels bowling team, Preston Wisely, Dept. 28, and Tommy Pierce, Dept. 22-6, now are in fourth place of American Bowling Congress standings. The men went to Syracuse, N. Y., to bowl in the national tournament. They joined three men there to form a team.



BEATS BUNT—Billie Huddleston, Dept. 17, beats out a bunt for a base hit in women's softball action at CRA area. Peggy Lance, Dept. 3-3, is on first. Women play each Thursday night.

Pitchers Hurl Three No-Hitters As Second Half Softball Begins

Three no-hit ball games highlighted CRA softball play as most leagues swung into second half action.

Ike Duncan of the Bombers hurled a 1-0 no-hit game over the Missiles, and Nate Martin chalked up his no-hitter as the Rockets downed the Props, 3-0.

In all-city league play, Ernie Allcock of the Kats pitched a no-hitter against Arrow Motors. The 4-0 win included 10 strike outs by Allcock. CRA's Kats lead second half play with two wins, no losses.

The CRA team in NTIRA league play leads the second half with two wins. They finished first half in a three way tie with Chance Vought and Temco.

Lady Hustlers are league lead-

ers in women's softball action. They have lost only one game.

R. L. Evans, commissioner, said the two CRA leagues have been reorganized, with four top teams making up league 1. They are Bombers, Missiles, Rockets and Props. Bombers lead.

League 2 is made up of Hawks, Traffic, Ragknobs, White Horses and Hustlers.

Major Team Is Best Since War

The best CRA baseball team since days of World War II is undefeated in six games to stake undisputed claim on leadership in Fort Worth's Major City League.

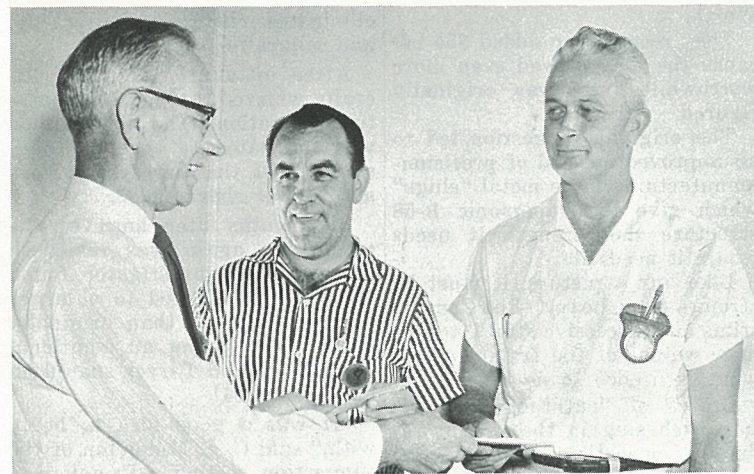
Victories were over Westcliff, 6-2 and 5-1; Tesco, 3-2; and Carswell AFB, 10-4 and 3-0.

Games are marked with terrific hitting and fine defensive play, which produces an average of two double plays per game!

Jackie Davis, whose mother is in Dept. 74, has an overall .450 batting average and two home runs to his credit, and Manager Bobby Franks of Dept. 81 also claims two homers with an average of .308.

"This is the best team we have had since I came to Convair in 1950," said Roy Jarl, commissioner.

Other big guns with the bat are Robert Snow, .400, and James Robinson, .333.



SHOE CHAMPS—Commissioner Finn Wahl, left, presents certificates to new plant champions in horseshoe pitching, B. V. Partlow and W. M. Pullin.

Activities Calendar . . .

(CRA stands for Convair Recreation Association, an organization to which all Convair employees belong. Financed by proceeds from candy and soft drink machines in the plant, the association is run by a Council of employees who are commissioners of various activities. The association is run by employees for the benefit and recreation of employees. All Convair people should feel free to join any of the groups such as are listed on this page.)

Fort Worth

ARCHERY—H. L. Lucas, commissioner, ext. 8283. Tournament July 4, 5 and 6, archery range, CRA area.

ART—E. D. Weimer, commissioner, ext. 5205. Art classes Thursdays, 7:30 p.m., CRA Building.

BRIDGE—G. P. Anderson, commissioner, ext. 3226. Duplicate sessions: Fridays, 7:45 p.m.; Wednesdays, 9:30 a.m., CRA Building.

CAMERA—Miles Rogers, commissioner, ext. 2294. June 25, bi-monthly black and white print contest, 7:30 p.m., CRA Building.

CHESS—R. W. Wooten, commissioner, Annex 2, ext. 302. Meeting July 2, 7:30 p.m., CRA Building.

GOLF—Lawrence Armstrong, commissioner, ext. 8201. Tournament June 28 and 29, city courses.

MOVIES—June 30-July 3, "Coroner Creek" with Randolph Scott; July 7-10, "Blue Blood" (color) with Bill Williams. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner, ext. 2186. Operating night June 26, July 3 and 10, 7:30 p.m.; novice code and theory class, Saturdays, 10:30 a.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

SOFTBALL—R. L. Evans, commissioner, ext. 5141. Games Tuesday through Friday, 7:30 and 9 p.m., CRA area.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each Thursday: beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

STAMP AND COIN—L. R. Wilson, commissioner, ext. 8225. Stamp auction July 1, 8 p.m., CRA Building.

TABLE TENNIS—C. G. Barton, commissioner, Ext. 2294. Play Tuesdays, 7:30 p.m., CRA Building.

TENNIS—Gene Records, commissioner, ext. 6103. Tournament starts July 8, 6-9 p.m., Forest Park Courts; entry deadline July 3, CRA office.

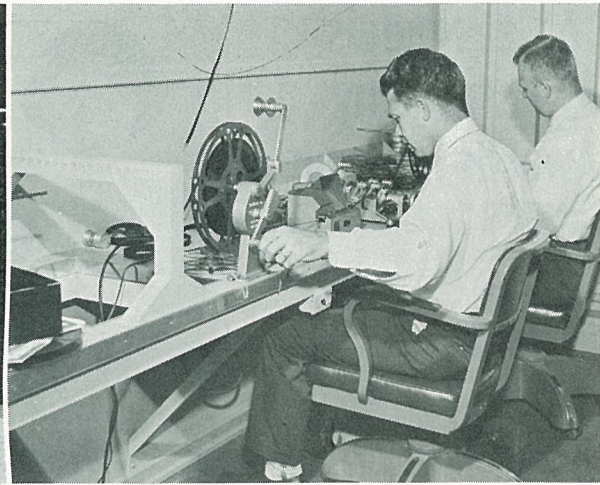
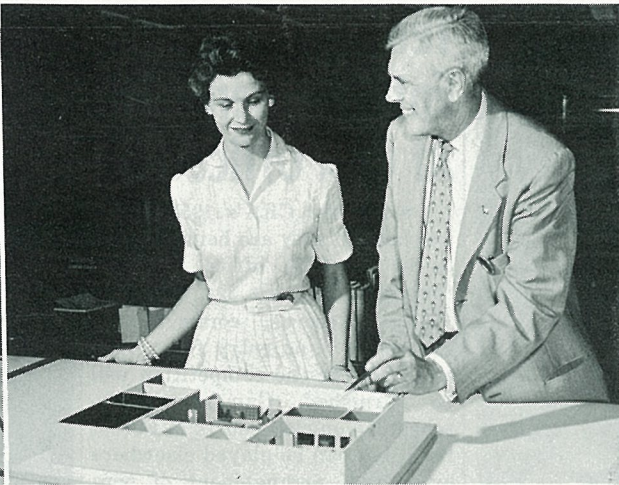
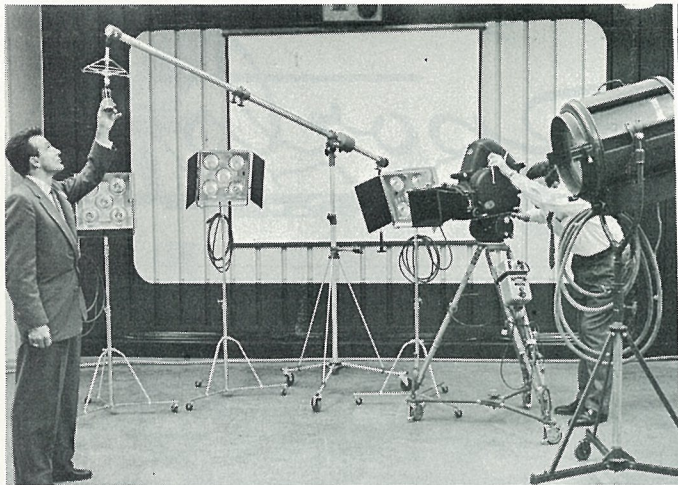
VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 8131. Supervised free play Thursdays, 7-9 p.m., picnic area No. 1, CRA area.

Daingerfield

BRIDGE—J. R. Nazal, commissioner, ext. 481. Party bridge second and fourth Thursday, 7:30 p.m. see bulletin board for location.



NIGHT BASEBALL—Powerful lights flood CRA's junior baseball park as the Eagles down the Pirates, 12-15, in a recent game. The young Convair players provide some exciting baseball.



READY FOR ACTION—New movie studio and offices have been installed at Convair Fort Worth. In center E. Stanton Brown shows Margee Garner a model of work areas. At left R. Shields Mitchell checks mike boom before shooting session. At right Bill Watson and Charles Hamilton edit film.

Con-Trib Gives FW a 'Heart'

(Continued from Page 1)
civic leaders saw everything needed for heart surgery—glistering surgical instruments, special electronic equipment.

And, as center of attraction, the artificial heart and lung. The equipment will enable delicate heart surgery to be performed in any hospital in the city.

"Con-Trib-Club paid for everything," Dr. Rodriguez said.

Even the cabinets, however, are special. Since they carry the electronic equipment, the hospital-quiet rubber wheels must be conductive to keep the cabinets electrically "grounded" at all times.

"The Con-Trib gift is one of the finest surgical outlays for heart repair in this section of the country," said Henry. "Every citizen at Convair can be proud of his part in making this gift possible."

Dr. Rodriguez explained that the miraculous artificial heart and lung is used for a maximum of about ten minutes while heart repairs are made.

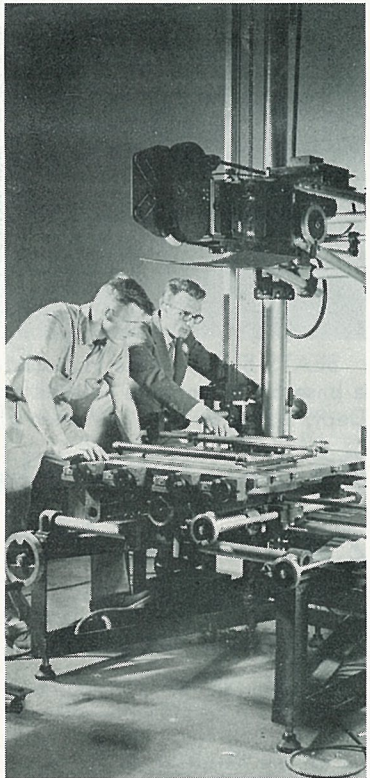
"To reach the heart," he explained, "surgery is done in a routine way. Then, repairs are made to the heart itself as quickly as possible."

The heart is stopped during the actual repair. That is when the artificial heart takes over as a substitute. The mechanical heart is really a pump which approximates as closely as possible the gentle workings of the real heart to keep blood circulating.

Blood passes through the artificial lung, which adds oxygen just as the lungs would do. The oxygenator sends thousands of tiny particles of oxygen bubbling through the blood.

Before the blood returns to the body, a "defoamer" removes bubbles. The artificial lung also keeps the blood at the correct body temperature.

All the equipment is portable and can be used in any hospital in the city—for any patient in need of heart surgery.



Mitchell and Richard McCarthy, left, check new animation machine, same type as used for Mickey Mouse.

43 Acres Face Resurfacing

(Continued from Page 1)
quarter completed before crews begin another.

The rehabilitation will include a six-inch soil-cement stabilization. Present soil will be mixed with cement to a depth of six inches. The base will be surfaced with two inches of asphalt. Worth Construction Co. of Fort Worth holds the paving contract. Other plant projects:

Brown and Kerr Roofing and Sheet Metal Co. of Chicago won a contract for reroofing the main plant and other buildings. Work is due to begin early next month.

Operational tests now are under way on the high altitude test facility, and work will begin June 30 to put roofs on two of the new B-58 engine run stations.

Injured Boy Who Was Helped by Con-Trib Graduates Among Leaders of His Class

Fifteen-year-old Kenneth Ledbetter—paralyzed from the chest down—has dedicated his life to kicking a word out of the English language.

He is convinced there is no such word as "handicapped," and he's out to prove it.

Kenneth, son of Drew Ledbetter of Dept. 46, recently graduated in the top five of his class in the eight-grade Joshua School. During the past three years, he has been confined to a wheel chair.

"Employees Con-Trib-Club and all the people at Convair have really been wonderful," Ledbetter said. "Thanks are in order for all who helped."

Kenneth was injured while playing on a rural highline guy wire. He climbed the wire until the line's 7200 volts tumbled him to the ground. Kenneth was found unconscious, lying in mud.

Doctors at a Cleburne hospital said the boy's spinal cord was severed. He was paralyzed from the chest down.

"That's when Con-Trib moved

in," Ledbetter said.

But help was appreciated even more later when Ledbetter lost four months work because of illness. Employees Emergency Aid Fund again stepped in to lend a hand.

M. A. "Milt" Stewart, CRA welfare commissioner, also recalled that Fix-A-Toy volunteers came across an electric cart which they gave to Kenneth.

"He finally ran all the rubber off the tires," Ledbetter said.

Young Ledbetter used a wheelchair to get around at school, and he never missed a play period!

But the big story is in his studies. He whizzed through school work with an agility that makes a mockery of the word "handicap."

When he wheeled up to get his diploma, his parents were proud as could be—but there were some other proud folks there too. They were the thousands of Con-Trib-Club members who looked over his shoulder.

FW Gets Own Movie Studio

Convair Fort Worth now has a motion picture studio equipped to do just about everything in the production line from script to screening.

The movie group is housed in a studio area in the northwest section of the second floor of the administration building. It includes a sound stage, sound booths, editing rooms and film library.

The facility will enable Convair Fort Worth to produce its own progress reports and technical films. Formerly, when a film was needed, crews had to come to the plant from Dallas.

E. Stanton Brown, general supervisor of engineering, has responsibility for the new motion picture unit.

Clyde Shrell and R. Shields Mitchell explained that the new unit will do scripting, direction, editing, scheduling, photography, sound, printing and animation.

Shrell said 21 movies already are scheduled, and more are planned. Already in preparation is a filmed report on the "History of the B-58."

The movie will compress the Hustler's years of design-development into a smooth 25-minute movie.

Formerly, Convair Fort Worth employees wrote, directed and edited most film reports, but since Fort Worth has no film companies, movie crews had to come in from Dallas.

"Much of our footage is shot during actual operations," Mitchell said. "This we must shoot when the event occurs—and this was often difficult to arrange under the old method."

Director Explains B-58 Test Program

(Continued from Page 1)

the picture at an early date."

Of the joint effort, Jones said the test force is a "complementary" program. "We all are trying to get the B-58 into service at the earliest possible date," he explained.

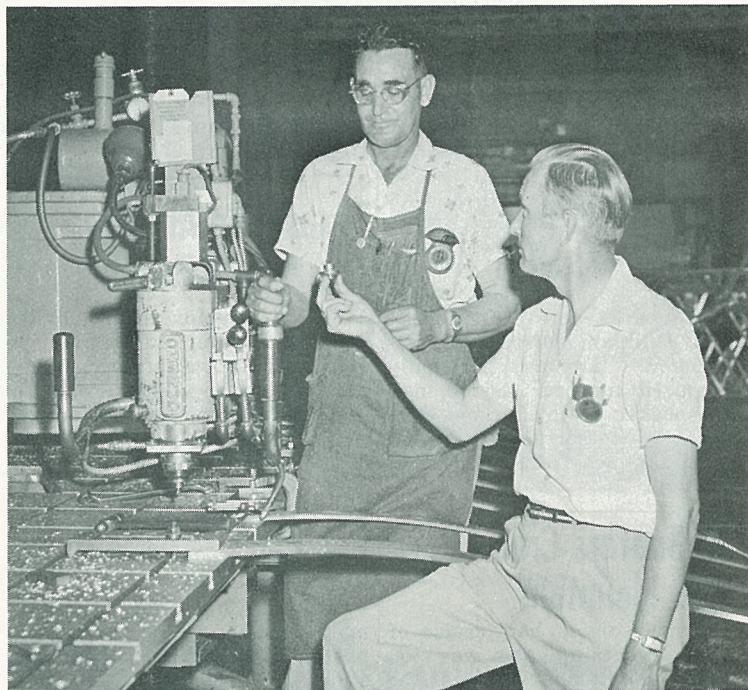
"We will work closely with Convair. If we know what Convair is doing at a particular point, we can go on to something else."

Jones is no stranger to Convair. As a member of the Doolittle raid crew, he was present when the first B-24 was rolled off the assembly line at the then new Fort Worth plant.

He joined the cavalry in 1936, and went to flying school a year later. At outbreak of World War II, he was with the 17th Bomb Wing, which later became the first wing equipped with B-25s—the Doolittle plane.

As a member of the B-25-equipped unit, Jones volunteered for the carrier-launched air strike at Japan. After hitting his target, he bailed out over friendly forces when his plane ran out of gas over China.

It was then that he came to Fort Worth to take part in the ceremonies at Convair Fort Worth. Later, Jones was assigned to Africa, where he was shot down in 1942 and spent the rest of the war as a prisoner.



BETTER "BATHTUBS"—H. D. Tarver, Dept. 31, discusses idea for router guide with V. F. Roland, assistant foreman. Idea for better "bathtub" cuts earned suggestion award for Tarver and J. H. Ross.

ES Earns an 'Extra Dividend' When Idea Improves With Age

An Employee Suggestion approved more than six months ago for a \$233 award paid off again last week with an unexpected bonus dividend for the suggestors at Convair Fort Worth.

They received an added \$54 because the idea proved even more worthwhile than was originally figured.

The original suggestion led to an improved method of precision-manufacture of the metal "slugs" which give the supersonic B-58 structure the strength it needs where it needs it.

Like any structure, it must be strong—thus, heavy. But Convair trims off excessive "fat" to reduce weight of the frame to just what is needed to do the job.

Scores of "bathtubs" are cut into each slug in the weight reduction operation. Each "bathtub" is an oblong cut with additional material removed in an undercut operation.

Thus, weight of each slug is reduced to a minimum for the strength required for the particular job.

It originally took two cuts to

complete each "bathtub"—until H. D. Tarver and J. H. Ross of Dept. 31 struck on an idea to make it a one-cut operation. They suggested a simple redesign of the router's guide collar which eliminates changing router bits and collars for each cut.

After installation, "slugs" literally whizzed through the "bathtub" operation. The new method was calculated to save the division \$2,337 the first year. Ross and Tarver shared \$233.

Six months later, however, the suggestion again was reviewed. A suggestion investigator found it had been adapted to a larger number of slugs than originally anticipated, saving an additional \$539. Ross and Tarver shared an additional \$54!

"It was a good idea to begin with," said C. S. Middleton of the suggestion section. "It got even better."

A good idea, Middleton said, pays off in three ways—through increased earnings for the suggestor, through an increased production rate, and through production of a lower-cost airplane.



DAINGERFIELD AWARD—J. T. Carroll Jr., superintendent of maintenance, right, presents suggestion award to W. C. McGraw, Dept. 3-4, at Convair Daingerfield. The \$125 award is largest to date at division.



Published every other Wednesday by Convair, a Division of General Dynamics Corporation, for the benefit of Convair people everywhere.

Convairiety

Vol. 11, No. 14

Wednesday, July 9, 1958

Fort Worth and
Daingerfield
EDITION

Fort Worth news office:
ext. 8245; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



NUMBER ONE—Surrounded by some of the 1957 issues of Convairiety that earned honor is International Council of Industrial Editors' first-place award.

Convairiety to Pass Its 10th Birthday Soon

Convair's award-winning Convairiety soon will be ten years old.

The publication was founded in August of 1948 and the first issue appeared Sept. 1 of that year. Since then Convairiety has published 257 times, coming out every other Wednesday simultaneously at all divisions. This has involved roughly 11½ million individual copies.

At the outset, Convairiety was established as a separate department in General Offices, reporting to R. H. Biron, vice president-administration. Logan Jenkins, former Colorado and California daily newspaper reporter and editor, was placed in charge, operating from San Diego where all editing and publishing were performed. A field office was created at Fort Worth to supply news from that division with Bob Vollmer, also a former daily newspaperman, in charge, reporting locally to the manager of industrial relations. The first few issues were identical, whether distributed at San Diego or Fort Worth.

"However, it soon became evident that San Diego and Fort Worth were too far apart to be served adequately with entirely the same publication," Biron recalled this week. "News that was of local value at Fort Worth was valueless at San Diego and vice versa, resulting in wasted space at one division or the other."

So, an "edition system" was adopted early in 1949 (for the first time in industrial journalism, incidentally), whereby part of the paper was the same throughout, but one, two or three pages were exclusively Fort Worth and the same number exclusively San Diego news. The same system is in effect today, though considerably expanded and refined.

Currently Fort Worth has its own page one, jump page and its (Continued on Page 3)

Machine Accountants Elect FW's Wilson

L. R. Wilson Jr., FW Dept. 19-4, now serves as a director of National Machine Accountants Association. He is a charter member of the Fort Worth chapter, NMAA, and served as executive vice president of the group.

Convairiety Awarded Top National Honor

Convairiety ranked No. 1 in the nation among publications of its type in the annual publication competition conducted by the International Council of Industrial Editors.

The winning first place award was announced by ICIE at its annual conference in Washington, D. C.

It is the first time Convairiety has won the No. 1 spot, although it has placed second year after year since it first entered the ICIE competition.

The No. 1 award covers each of Convairiety's five editions—San Diego edition, Fort Worth and Daingerfield edition, Pomona edition, Antelope Valley edition, and the Mail edition.

Convairiety's category was that of a company newspaper of news and activities published for employees in more than one community.

Runners-up to Convairiety in the category were the Kresge News of the S. S. Kresge Co. in Detroit, and the Pacific-Alaska Division Clipper of Pan-American World Airways in San Francisco. A third place went to the Conocoan of the Continental Oil Co. in Houston.

The first place award to Convairiety reflects the judges' evaluation of Convairiety's effectiveness in three basic areas: content

weighed at 40 per cent, writing weighed at 30 per cent, and appearance 30 per cent.

In the words of the official ICIE certificate, the award is "in recognition of exceptional accomplishment in achievement of purpose, excellence of editorial content and effectiveness of design."

Judges were veteran editors, most of them experienced editors and newspapermen of daily newspapers.

A total of 916 company and association publications entered the contest. Entries included 54 from Canada, five from Hawaii and eight from England. ICIE members total about 3,800.

In winning the first place award, Convairiety recognizes that it was made possible only through the help of many people both inside and outside Convair.

Convairiety's special thanks go to Convair photographers who contribute to each issue of each edition, as well as to Neyenesch Printers Inc., of San Diego (who print all editions except for the Fort Worth and Daingerfield edition) and to F. L. Motheral Co., in Fort Worth, which prints the Fort Worth and Daingerfield edition.

B-58 Training Units Formed

Sections of Convair Fort Worth's first mobile training unit for Convair's supersonic B-58 Hustler are now under construction, and layouts for still other panels are being readied.

The mobile unit will be one of the most ingenious ever devised for an Air Force bomber. It includes 17 training aids made up of 30 different panels.

Air Force people will find a touch of realism in the unit, devised to give simplified on-the-spot instruction to crewmen who maintain the airplane.

The unit includes both animated and mechanical panels. The trainer for the hydraulic system, for instance, uses an animated board to show how hydraulic fluid operates the Hustler's landing gear.

On a mechanical panel, students can observe a small landing gear in operation. The two panels are (Continued on Page 6)

B-58 Crews Praise Hustler Capability

"Engineers in every respect have given us an airplane which we believe is a real 'pilot's airplane' . . ."

It was Chief Pilot A. S. "Doc" Wittchell speaking, but it could have been any one of the flight test crewmen at the June meeting of the Convair Fort Worth Management Club.

B. A. Erickson, manager of flight, put it differently—and drew a warm round of applause.

"In the case of your latest machine," Erickson said, speaking for flight crews, "we want you to know you have built a great airplane."

Erickson said Mach 2 is now old stuff—"we do this all the time, because that is the kind of airplane you have produced."

It was the flight department's night at the Management Club, and flight crewmen went all out

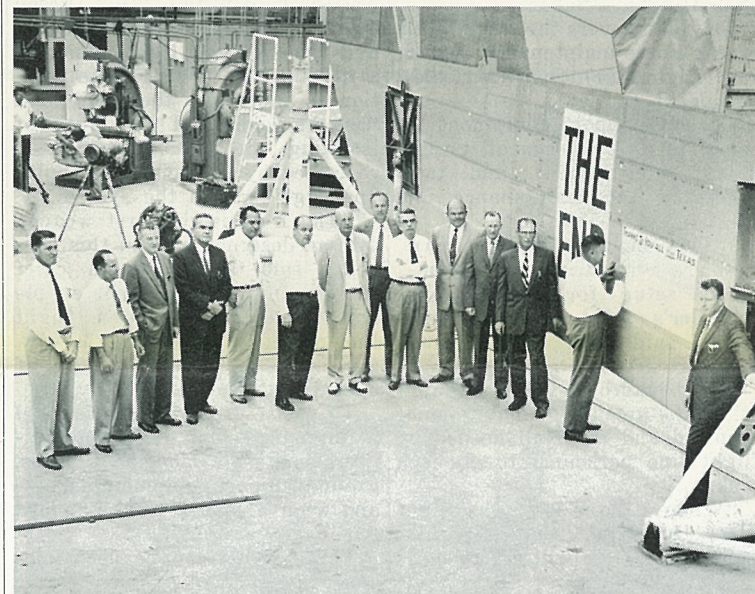
to present a picture of flight operations. Other "B-58 Night" speakers were C. P. Harrison, flight test engineer, and pilots G. I. Davis and Jack Baldridge.

Prior to the talks, club members at Lake Worth Casino saw extensive displays of flight test equipment, pilot survival gear, and a movie of an actual pod drop on the Holloman range.

And, in one of the night's lighter moments, club members cheered J. L. Blackmon as he demonstrated how a pilot downed in water inflates and uses a one-man life raft.

"Paddling" across the Casino's ballroom floor, Blackmon caught the raft, finally boarded the flimsy craft.

Also on display were telemeter equipment and instrumentation, pilot's flight gear, a display of cameras used in flight tests, and a pilot's survival kit.



LAST PANEL—Convair Fort Worth employees "sign off" last panel to mark completion of work on wing panels for B-52 bombers. J. E. Harwell, acting factory manager, autographs panel. At right is B. G. Reed, assistant division manager.

Four-Year B-52 Work Phases Out As Quality Continues Excellent

One of Convair Fort Worth's most successful sub-contract projects—fabrication of B-52 outer wing panels and vertical fins—was completed this month in a "very excellent phase-out."

J. E. Harwell, assistant factory manager, said the project was one of the division's best efforts, with the phase-out a "model in quality until the last."

The division began building the B-52 components for Boeing Airplane Co. in 1954, with the first

units delivered July 14, 1955. Production at its peak reached 10 units each month.

"And, quality was tops all the way," said O. R. Goode, assistant chief of inspection. "Quality—contrary to general rule—continued to improve through the last unit."

W. H. Tidwell, superintendent, said success of the program was due in large measure to two production aids—installation of a (Continued on Page 6)

Metal Fabrication Wins Award For Improvement in Quality

(Picture on page 6.)

One of Convair Fort Worth's larger departments, Dept. 31 (metal fabrication), now holds the monthly award for quality improvement.

The department exceeded its quality target by 35 per cent, which resulted in a savings in scrap and rework losses of \$2,846.

A large share of the credit, according to E. G. Henderson, superintendent of fabrication, should go to D. O. Burch, general foreman of Dept. 31.

Burch installed a supplemental system of quality control to keep people in the department conscious of their quality effort. The system consists of posted charts which show the number of rejections and minor rework items at-

tributable to each group within the department.

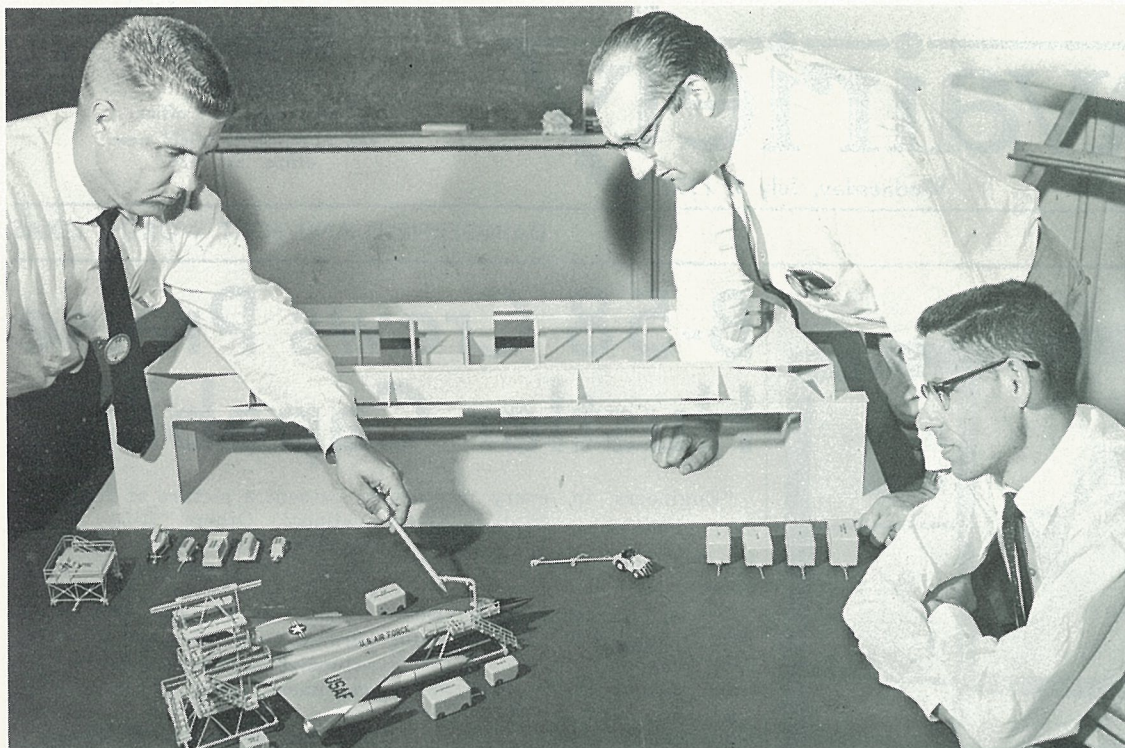
"This way," Burch explained, "people are conscious of their quality record. They do not like to see their rejections and rework items posted."

Rejections are investigated in the department—on the spot—in an effort to prevent further rejections.

"Burch's system keeps everyone aware of the quality effort," said T. E. Hoffman, chief of inspection production. "It gets corrective action at the departmental level."

Hoffman made the presentation.

Dept. 35 (plastics), winner of the quality plaque last month, was runner-up in this month's competition.



FLIGHT LINE—John Heit of Fort Worth ground support equipment design, seated, checks flight line maintenance plan for Convair supersonic B-58. J. B. Thetford points out nose stand hoist. J. M. Szablowski looks on.

B-58 Maintenance Plans Developed With Eye to Fast System Check-out

Convair Fort Worth's service engineering department is now developing a detailed maintenance plan for Air Force operational units using Convair supersonic B-58 Hustler bombers.

The plan covers the three levels of Air Force maintenance: squadron (flight line), field (periodic), and depot (major).

Ground support equipment includes all test equipment, ground handling equipment, and tools necessary for maintenance and overhaul of B-58s.

"This includes everything from a screwdriver to a complete setup for test of the Hustler's most intricate system," said John Heit, ground support group engineer.

The squadron-level plan minimizes the amount of maintenance required and the skill needed by flight line personnel to do each task.

"When a plane is on the flight line," Heit said, "time is a vital factor. What we will try to do is

minimize maintenance requirements necessary to keep the plane in flight status."

Many of the test equipment items will include built-in "Go/No-Go" capabilities. "Go" (green light) indicates a good system, and "No-Go" (red light) indicates a malfunction. Where a malfunction is indicated, the equipment has the additional capability of isolating the trouble, which is corrected by replacing the faulty "package" within the system.

"The B-58 is the first weapon system designed around this concept," said G. B. Clayton, chief service engineer. "It will enable non-specialized Air Force flight line people to maintain the system in an unprecedented state of operational readiness."

To assist in the squadron-level maintenance plan, service engineers use scale models of B-58s, ground support equipment carts—and even a model of a standard Air Force hangar.

Three B-58s can be accommo-

dated in existing Strategic Air Command hangars.

The scale models illustrate logical sequence of testing, and demonstrate placement of ground support items around the ship.

Though Go/No-Go test items are the most advanced yet designed for flight line maintenance, careful consideration is given each piece of equipment to weigh its cost against advantages gained.

"We must be practical," Heit explained. "Where possible, we adapt standard Air Force equipment to B-58 ground support tasks."

"We seriously evaluate all automatic features versus cost, complexity and reliability. In each case, we take a close look to insure that what we gain outweighs the other factors."

"Reliability, of course, is the number one item."

All ground support test equipment is designed for a life of at least 10 times that of the airplane equipment which it tests. The test equipment is in compact units, which are mobile and can be wheeled up to the plane in minutes.

FW MEN TO SPEAK ON B-58 FOR IAS

A panel of Convair Fort Worth men, including August C. Esenwein, manager, will give a special review on design and development of the Convair B-58 before a national Institute of Aeronautical Sciences meeting tonight (July 9) in Los Angeles.

The classified discussion will be held at the Ambassador Hotel.

Appearing with Esenwein will be M. L. Hicks, assistant manager; B. A. Erickson, manager of flight; J. E. Goode, chief of aerodynamics; D. R. Kirk, senior B-58 project engineer; R. J. Patton, senior propulsion group engineer; and E. B. Maske, chief of aerodynamics.

Pilots, Crews Train For Jet 880 Flights

Pre-flight training for pilots and crews, in anticipation of the jet 880 flight program beginning early next year, is advancing on two fronts at San Diego.

Engineering flight test personnel (who will make the first flights with the airplane) have been flying various types of jet aircraft and attending vendor schools throughout the country for first-hand experience on systems not produced by Convair.

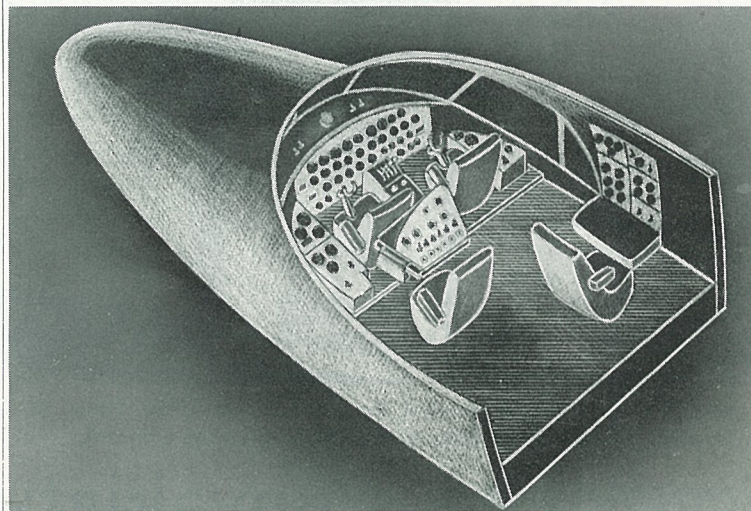
Production flight personnel (see story below) are similarly engaged.

"Of the first four airplanes off the production line, three will be assigned to engineering flight test," G. E. Putness, chief of SD engineering flight test, reported. "The No. 2 plane will be for

static tests at the seaplane ramp."

Plane No. 5, which will be the first delivered to customers, will be assigned to production flight for flight acceptance tests. According to present plans, production flight crews, to some extent, will be integrated into the engineering flight test program so that they will be fully familiar with 880 operation before they go into action.

Don Germeraad, SD chief engineering test pilot who will be at the controls on the first flight, is currently participating in vendor-school training courses on 880 power plant and systems. Test pilot John Knebel is now assigned to Convair FW for flying experience on jet craft similar in operation to the 880.



EVERYTHING BUT FLY—Sketch shows cockpit procedures trainer which will be used by flight crews at San Diego in advance of actual 880 flight.

Production flight's training section is moving into high gear as it prepares Convair SD's pilots, flight engineers, and flight electronics engineers for operation of Convair's 880 jet transport.

Approximately 30 Convair personnel are now undergoing basic preparatory courses to familiarize them with new aircraft concepts used for the first time in the jet transport, said W. B. Harwell, manager of production flight.

Pilots and flight engineers, used to flying piston aircraft, must become acquainted with fundamentals of jet engine operation. Courses, which started two months ago, are conducted under the direction of P. H. Selby, flight training supervisor. A review of basic mathematics and a general course in aerodynamics of swept-wing aircraft begin this month.

Most important, and most expensive, training aid—the 880 cockpit procedures trainer—will play a big part in operational familiarization. Convair SD expects to take delivery of the quarter-million-dollar trainer in October. This exact replica of the 880 cockpit is now under construction by Burton-Rodgers, Inc., Cincinnati, Ohio.

"The procedures trainer, actually a limited simulator, does everything but fly," explained Selby. "Instruments in the unit will respond to operating controls exactly as they will do in actual flight."

The trainer will be installed on

the lower floor of Bldg. 4 in SD Plant 1. The center section of the building is slated as joint facilities for production flight and customer service in the 880 training program. Occupancy is scheduled for Sept. 1.

Throughout the summer months Convair SD personnel are attending vendors' schools to become familiar with various 880 systems, including electrical, air conditioning, etc.

A group of 27 representatives of SD engineering, training, plant engineering, engineering flight test, production flight, customer service, inspection, and field operations returned the end of last month from a three-week course at General Electric engine school in Evendale, Ohio.

Basic training will continue throughout this year climaxed by a ground school course next January in 880 systems and performance characteristics. After the course has been tested on Convair pilots it will be ready for customer training.

After the first production plane is completed in the fall of 1959 production flight will take over with two well-trained flight crews. The crews will each consist of a pilot, co-pilot, flight engineer, flight electronics engineer.

Personnel of the first 880 production flight crew will probably be W. D. Carrier Jr. and A. P. Wilson, senior pilots; K. J. Rogers, senior flight engineer; and L. W. Hughes, senior flight electronics engineer.

The senior crews will then check out the rest of Convair flight personnel.

Customer training will begin six months in advance of each airline's first plane. Training for TWA instructors will start with a five-week ground school course about April of 1959, according to the present schedule. TWA is due to take delivery of the first production 880 in November, 1959.

Compilation of an 880 flight training manual and other training material used in the program started the first of the year, with flight training section of Dept. 12 responsible for all information and its presentation. Six flight engineer-instructors engaged in this work are K. H. Brooker, C. J. Falkenthal, C. L. Johnson, L. M. Norton, L. J. Rice, J. B. Van Houten, under direction of Selby.



HOT CONTEST—Model plane enthusiasts of Dept. 61 at SD hang on performance of entries in lunch-time contests in low speed wind tunnel. Left to right are Frank Evans, Bob Sinnott, Utah Sammons (kneeling), Joyce Currie (only girl competitor) and Cullen Sabin.

Lunch-Time Contests Attract Cheering Crowds to SD Tunnel

A lunch-time attraction is playing to packed houses in the low speed wind tunnel every other Friday at Convair SD.

Light model planes float and whirl through the moving air behind the prop blades in the approximately 50-ft. empty space of the tunnel, competing in every kind of speed and endurance contest devised. Feeling runs high among the many spectators who spend their noon hours cheering on their favorites.

"What began as a time-passing activity during lunch hours about six months ago has developed into a hot running contest with

everyone out to break established records," said Utah Sammons, chairman ex-officio of the Dept. 61 plane builders.

Only regulations are that the models must be paper covered and powered by rubber bands, no longer than 8-in.

The contests are conducted efficiently with official timers, winders, and score keepers. A doughnut concession is even conducted on the side to raise money for the winners' prizes.

Latest achievement was the breaking of the 2-min. endurance record by Cullen Sabin's light plane with a time of 2:03 in the June 20 contest.



BACK TO SCHOOL—Instructor L. W. Hughes briefs production flight crews in basic electricity in 880 training program now under way at Convair SD. Included in classroom group are: L. J. Rice, C. L. Johnson, A. F. Steck, J. S. Carson, K. J. Rogers, K. H. Brooker, A. P. Wilson, Vincent Gann, and J. B. Van Houten.

'Miss CRA Health Club' Will Be Selected At Plantwide Dance at CRA Area July 26

"Miss CRA Health Club of 1958" will be selected during a parade of beauty at the next free plantwide dance at the CRA clubhouse at 8 p.m. July 26.

The dance will be sponsored by the ballroom dancing activity, with the beauty contest conducted during an intermission. The women's health club section of CRA's weight lifting activity will conduct the contest.

I. M. Pemberton, commissioner of ballroom dancing, said Sandy Sandifer's Combo will play for the Saturday night dance session. It will be the area's third free dance.

"The two previous dances were very well attended," Pemberton said. "The dances seem to be

very popular, and we plan to hold them as often as possible."

H. L. Carter, weight lifting commissioner, said health club members interested in the beauty

Garden Club Holds 'Landscape' Session

Mrs. John Therrell will speak on landscaping at next meeting of the CRA garden club at 7:45 p.m. July 22 at the Fort Worth Garden Center in Botanical Gardens.

Mrs. Therrell works with her husband in the nursery and landscaping business. She said every yard should be landscaped around a focal point, such as a tree, a structure, a fountain, or the like.

contest should contact him at ED 6-4701.

"We already have five women entered," he said. "We would like to have at least nine."

Carter said the panel of judges will include two newsmen and a health expert. Winner will receive a trophy.

"We have a well-equipped health club," Carter said. "We have a wonderful membership — and some very beautiful women who would do well in any beauty contest."

"This event will point up the women's health club organization and the opportunities offered."

R. S. Pluskey Is New Commissioner Of Garden Group

R. S. Pluskey of contracts department is commissioner of CRA's new gardening activity, according to T. G. Croft chief of



R. S. PLUSKEY

employee services who announced the appointment.

Pluskey joined Convair in 1951. He is a director of the Men's Garden Club of Fort Worth. Gardening was accepted as a regular CRA activity by the Employees Council last month.

"Gardening is a 'natural' for CRA," Pluskey said. "Our firm membership list already exceeds 100, and people still are calling for information."

Dept. 82, C. E. Howard, J. G. Thompson; Dept. 95, J. J. Boen. Ten-Year: Dept. 6, M. L. Harborne, V. M. McSpadden; Dept. 7, L. H. Baker Jr., J. Leahy; Dept. 14, G. A. Gibson; Dept. 20, T. W. Pinson.

Dept. 21, J. C. Allen; Dept. 22, H. L. Alexander, N. D. Barrow, R. P. Campbell, D. R. Carter, N. W. Maberry. Dept. 24, J. S. Crowell, J. W. McLean, R. A. Stewart; Dept. 25, E. M. Lawson, H. T. Webb; Dept. 27, E. L. McGowan, H. R. Sheets.

Dept. 29, J. H. Gibson; Dept. 30, R. F. Woolery; Dept. 31, J. E. Cody, C. L. Darnall, J. W. Fuller; Dept. 32, L. B. Gilbreath, O. E. Bomar.

Dept. 33, R. R. McCary; Dept. 36, J. G. Fielding Jr., C. O. Reed, J. D. Reed; Dept. 44, F. B. Boyd, O. I. Whitley.

Dept. 46, D. J. Ledbetter, C. M. Porter, L. E. Stegint, J. F. Wilmoth; Dept. 55, W. W. Knight, M. A. McCoy, C. H. Umphress; Dept. 57, T. L. Fullen.

Dept. 58, W. K. Davis, L. Reeves; Dept. 62, W. P. Harrell; Dept. 64, L. W. Meister, A. J. Meyers Jr., J. B. Reynolds, G. M. Ogle.

Dept. 73, D. L. Barnett, I. Vallery; Dept. 74, N. E. Stockard; Dept. 77, R. E. Weir.

Dept. 81, H. R. Alderson, K. E. Orr, J. F. Christian Jr., L. E. Graham, W. M. Stanley; Dept. 82, E. Mullens, A. M. Richerson; Dept. 89, C. L. Passmore.

Grisham, L. Bussell, G. Reedy; Dept. 33, B. A. Yandow.

Dept. 34, J. R. Hall, B. D. Ford; Dept. 35, J. D. Hensarling, N. S. Farmer; Dept. 36, W. C. Onken; Dept. 41, J. W. Yancey.

Dept. 46, G. D. Miller, P. T. Gentry, L. D. Mullins, S. E. Jones, H. C. Inmon, and former Dept. 46 employee, L. L. Kinson; Dept. 58, G. A. Anders, C. T. Boling.

Dept. 59, J. Arnold; Dept. 75, J. A. Snethen, A. S. Har; Dept. 81, W. H. Troxell, H. N. Harrison, P. E. Daily; Dept. 82, C. E. Henard, G. W. Gorden.

McDANIEL—Linda Kim, daughter, 6 lbs. 15 1/4 ozs., born June 19 to Mr. and Mrs. Bill McDaniel, Dept. 6-5.

ANDERSON—James David, son, 8 lbs. 8 ozs., born June 19 to Mr. and Mrs. J. K. Anderson, Dept. 6-5.

KASTEN—Brian Scott, son, 7 lbs., born June 20 to Mr. and Mrs. W. A. Kasten, Dept. 6-9.

HELM—James A., 57, Dept. 65, died June 21. Survivors are his wife, a son and two daughters; a brother, six sisters and four grandchildren.

DEIKE—Walter, 30, Dept. 22-6, died July 2. Survivors are his wife and children.

LOST—Magnetic amplifier, Model No. M5268. Contact J. R. Gardner, ext. 4225 or 8231.

The Passing Years...

The following service emblems are due during the period July 16 through July 31: Twenty-year: Dept. 6, L. H. Moffatt. Fifteen-year: Dept. 2, C. H. White; Dept. 4, P. Calhoun, W. D. Deaver, T. A. Rhodes Jr.

Dept. 6, H. J. Hillaker, H. C. Riepe, M. R. Rogers, N. Z. Williamson; Dept. 8, R. Carney, G. E. Mounce; Dept. 11, D. E. Ricks.

Dept. 20, G. W. Hood, D. K. Stokes; Dept. 22, C. R. Gardner, E. C. Cranfill, W. L. Dickinson, V. R. McLemore, W. T. Root; Dept. 24, E. M. Bailey, W. G. Locke.

Dept. 29, A. D. Jones; Dept. 30, E. D. Daniel, V. R. Williams, A. F. Robertson; Dept. 31, W. R. Hodgson, C. Lucko, W. H. Stewart Jr.

Dept. 33, A. F. Hankins; Dept. 34, W. J. Johnson; Dept. 36, G. E. Coombes, W. H. Simmons, W. A. Wagner; Dept. 54, F. F. Southard, T. O. Pennington.

Dept. 56, O. M. Howell; Dept. 57, E. L. Weir Jr.; Dept. 62, J. F. Reese, W. S. Snider Jr.

Dept. 64, J. E. Duke, L. E. Fisher, V. Stepp, V. E. Wallace, F. T. Williams; Dept. 65, B. W. Carrington Jr., B. L. McKinney; Dept. 73, O. R. Henderson.

Dept. 81, J. L. Bray, R. M. Clay, H. W. Epperson, P. M. McCoy, R. M. Plunk, R. Pogue Jr., J. W. Spradling, F. A. Tarver, O. O. Wallum.

Log Book Entries Promotions

Promotions to and within supervision, professional and administrative effective June 23:

Dept. 4: to buyer, L. A. Ziegler.

Dept. 6: to design engineer, T. M. Belian, J. W. Bourn, B. C. Habersaat, W. M. Johnson, L. B. Morton, R. Royce, J. E. Sholes, D. S. Taylor Jr., D. H. Townsend; to senior design engineer, S. E. Fulton, J. A. Gehringer Jr., D. R. Greenlee, G. S. McKinley, L. V. Rushing; to nuclear engineer, G. D. Pack; to senior nuclear engineer, W. E. Ivie Jr., T. C. Martin, J. A. Staples III; to aerophysics engineer, C. R. Weidler, W. B. Ford; to test engineer, S. L. Smith; to senior test engineer, L. D. Pendleton, L. L. Rutledge; to flight test engineer, F. Linnstaedt, A. B. McLemore, J. W. Thelander, D. Wilt; to senior flight test engineer, W. G. Ennon; to senior propulsion engineer, D. W. Goodwin; to structures engineer, J. N. McKinney, J. S. Loomis Jr.; to assistant project engineer, V. E. Boyer; to engineering metallurgist, J. R. Capen, S. B. Oxborrow; to engineering writer, M. A. Edwards; to associate engineer, B. M. Earnest; to weight coordinator, R. A. Linkenhoker.

Dept. 7: to subsystems liaison man, D. L. Alexander, C. L. Gresham Jr., L. L. Vincent Jr.; Dept. 24: to tool engineer, D. R. Stewart.

Dept. 27: to general supervisor, J. R. Ewen Sr.; to quality control liaison man, A. G. McKiddy Jr.; to outside inspection representative, B. R. Taylor.

Dept. 75: to assistant foreman, D. C. Cobb, L. F. Gerwe; Dept. 85: to aircraft maintenance specialist, W. D. Denney Jr.

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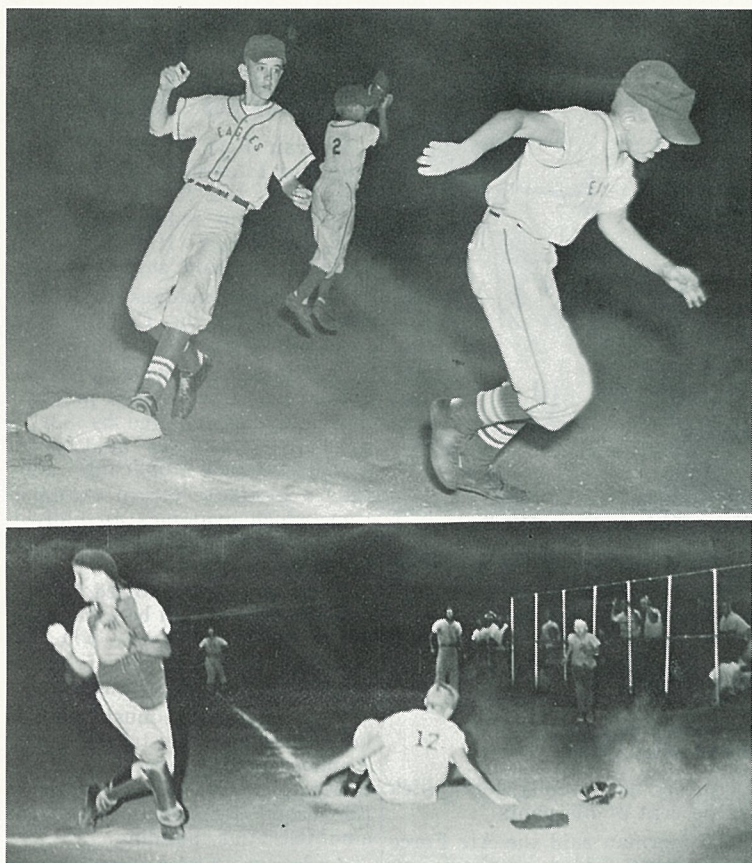
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BEGINNING AND END—Steve Terry, top picture, bolts for home as teammate Rodney Pruitt draws up at third during CRA all-star junior baseball game. Seconds later Terry is tagged out by all-star catcher Garry Massey (Yellow Jackets). League-leading Eagles won game, 15-9.

Panthers Hand Eagles First Loss, But Eagles Win All-Star Thriller

It seemed that the Eagles in CRA's 12-and-under junior baseball were unbeatable, but the team finally met its match this month in a fired-up Panther nine.

The Jets in the 15-16 year bracket now is the only undefeated CRA nine.

The Panthers dealt the Eagles their first loss of the season in a 9-7 thriller. It was the first loss in 12 games for the Eagles, which included a win over the all-stars June 19.

Manager C. L. Stinson's Eagle nine, behind the pitching of Lee Gilbert, carved out a 15-9 victory over the all-stars in a see-saw battle that had the stands in a continuous uproar.

The all-star roster was made up of three top boys from five 12-and-under teams. All-stars then took on the league-leading Eagles.

Managed by R. B. Smith and

T. L. Morrow, the all-stars moved ahead in the fifth, 9-6, but saw the lead shattered by an Eagle rally in the sixth. The contest was a thriller all the way, and drew one of the season's largest crowds.

K. "Mickey" O'Brien, commissioner, said the ballpark at CRA is in excellent shape and that games have drawn good crowds all season. "We could use more stands," he said.

The undefeated Jets play junior amateur baseball at Sycamore Park on Tuesday and Friday nights. Joe Pearce is manager.

Sound Engineer To Speak at CRA

A demonstration of stereophonic sound will be given by Tim Thomas of Clifford Herring Sound Company at 7:30 p.m. July 22 in the council room at the CRA clubhouse.

The meeting is sponsored by the CRA radio activity. Max Schelper, commissioner, said Thomas is a top sound engineer.

"This will interest anyone who has a desire to keep up with the latest in sound techniques for home recording, and high fidelity," Schelper said.

There is no charge for the meeting, and visitors are welcome.

Schelper said registration for code and theory novice class licenses will be taken at the meeting. Classes begin July 24. Fee is \$3, which includes two textbooks.

Armstrong Leads After 36 Holes In Golf Tourney

It was same song, different verse, as play ended after two rounds in the fight for the plant golf championship. L. H. Armstrong, defending champion, again led the field—and familiar names like Massey, Tyler, and Young were listed as leaders.

Armstrong fired 72, 78 for 150. In second position was G. A. Young, who combined the field's low, a 71, with an 80 for 151. Ray Massey and J. T. Tyler each posted a 152 after 36 holes.

Also in the championship flight are Jack Smith, 153; S. Levell and F. Hopton-Jones, 155; R. Clark, 156; H. Withers, R. C. Bissell and Weldon Dyer, 157; W. Waddel, 159; Bob Fuqua, 161; Harry Law, 162; Mike Muncy and Ray Lanham, 164.

The top 16 were selected for championship play on basis of scores after 36 holes. Players with lower scores then became the first flight, and will play from scratch.

First flight pairings for July 12 at Meadowbrook and July 13 at Z. Boaz are David R. Richardson, J. L. Billingsley, J. B. Rankin, J. M. Cudd; then J. W. Estes, Bob Mitchum, Jack Williams, Al James, L. M. Smyth; also Wilbur Watkins, J. J. Johnston, E. R. Muncy, Roy Logan, A. C. Lotspiech.

Play in second, third and fourth flights is match play.

'Portrait' Session On Tap Tonight For Camera Club

A tape-slide lecture, "Creative Portraiture," will be shown at a meeting of the CRA camera club at 7:30 p.m. today (July 9) at the CRA clubhouse.

The lecture explains how pictures are created through choice of model, pose, mood, and props. The lecture stresses steps to take to reduce amount of darkroom work needed to produce good prints.

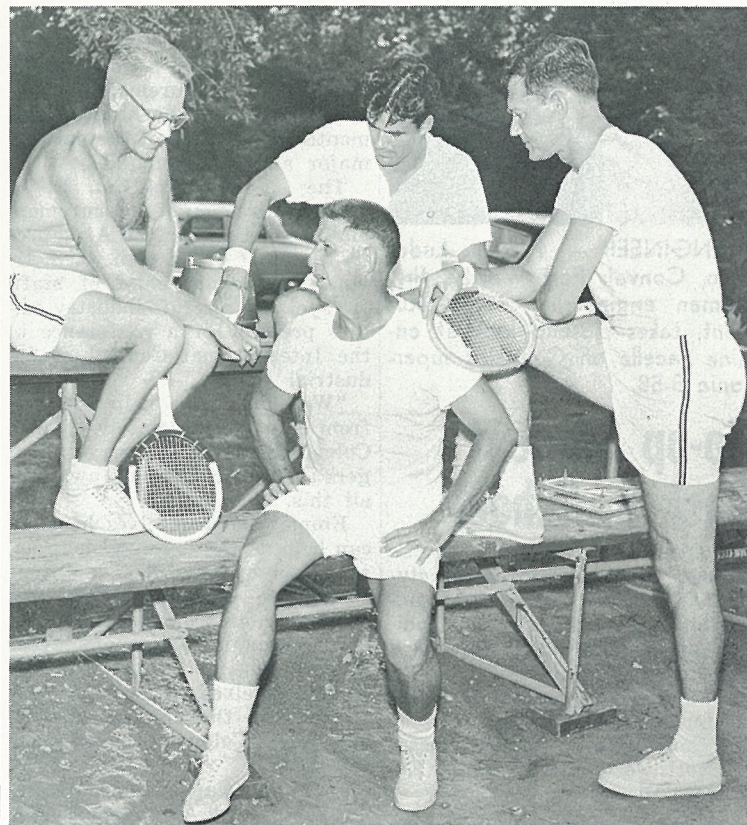
Meanwhile, the club plans to offer a class in beginning photography. It will cover fundamentals of camera use, how to take a good picture, and simple darkroom techniques. Anyone interested should contact Claude Stone, ext. 2100 or 2122, or L. A. Douglas, ext. 7165 or 2249.

M. R. Rogers, commissioner, said the club's "shooting session" last month was a fine event. "Diane Jones, Dorothy Fox and Judy Mears were very patient models," he said. "We appreciate their help."

Season's Biggest CRA Boat Cruise Begins at Possum Kingdom July 19

The longest and most interesting boat cruise of the season is promised CRA boaters during the July 19-20 weekend at Possum Kingdom Lake.

B. T. Frost, boating commissioner, said postcards are being



BREATHER—CRA's tennis hopefuls pause during practice for drink of water. Left to right are Claude Neil, H. R. Harrison, Gene Records, and Lou Perry.

Championship Tennis Play Begins At Forest Park with 30 Entries

Bombers Suffer Their First Loss

Bombers of CRA's softball league No. 1 suffered their first defeat of the season July 1 when the second-place Props scored a 9-5 upset.

The loss leaves the Bombers with a 6-1 record — still the league leader — and gives the Props a 4-3 mark. Rockets and Missiles each have won two, lost five.

Hawks and Traffic are tied for first in league two, and Lady Hustlers continue to dominate play in the women's league, with Dept. 73 in second spot.

In second shift play, manager Jack McNeely's Dept. 28 team leads the league.

Play to determine the 1958 CRA tennis champion began yesterday (July 8) at Forest Park courts, and will continue until the title is decided.

Gene Records, commissioner said a field of about 30 was due to begin the singles competition. Doubles play begins in about two weeks.

"We hope to have a faster tournament this year," Records said. Players will have a three-day limit to play off each pairing."

The Forest Park courts are reserved for the CRA tournament each Tuesday and Thursday from 6-9 p.m., but Records said contestants may play when and where they want by mutual arrangement.

'Smaller Ones' Are for Bait!

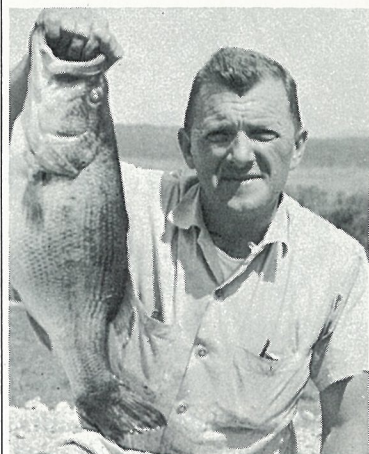
John Henderson, Dept. 4-1, has found his Utopia!

It may look just about like any lake, but the fish that come out of it are big, big, big!

Henderson said he and E. D. Williams of San Antonio found the spot—Bull Shoals in northern Arkansas—while on vacation last month. They hooked black bass weighing 10½ pounds, nine pounds, and eight pounds.

Six pounders are common, he said. Anything less, you throw back.

"It's one of those fabulous spots you find one in a lifetime," Henderson explained.



BIG 'UN — John Henderson, Dept. 4-1, shows big one he hooked at Bull Shoals in northern Arkansas.

Activities Calendar . . . Fort Worth

ARCHERY—H. L. Lucas, commissioner, ext. 8283. Shoot Thursdays, 7-10 p.m., archery range, CRA area.

ART—E. D. Weimer, commissioner, ext. 5205. Art classes Thursdays, 7:30 p.m., CRA Building.

BRIDGE—G. P. Anderson, commissioner, ext. 3226. Duplicate sessions: Fridays, 7:45 p.m.; Wednesdays, 9:30 a.m., CRA Building.

CAMERA—Miles Rogers, commissioner, ext. 2294. PSA lecture July 9, 7:30 p.m., CRA Building.

CHESS—R. W. Wooten, commissioner, Annex 2, ext. 302. Meeting July 20, 1 p.m., CRA Building.

GARDEN CLUB—R. S. Pluskey, commissioner, ext. 2208. Meeting July 22, 7:45 p.m., Garden Center, Botanic Garden.

GOLF—Lawrence Armstrong, commissioner, ext. 8201. Tournament July 12 and 13, city courses.

MODEL AIRPLANE—C. L. Price, commissioner, ext. 7106. Radio control contest and picnic July 12.

MOVIES—July 14-17, "El Alamein" with Scott Brady; July 21-24, "Johnny Guitar" with Joan Crawford. Shown lunch period, 50-foot aisle.

RADIO—Max Schelper, commissioner, ext. 2186. Business meeting July 22, operating night July 10 and 17, 7:30 p.m., CRA Building.

RIDING—Rent horses available at CRA ranch area.

SOFTBALL—R. L. Evans, commissioner, ext. 5141. Games Tuesday through Friday, 7:30 and 9 p.m., CRA area.

SQUARE DANCING—Ross Carney, commissioner, ext. 5115. Classes each Thursday: beginners 7-8:15 p.m.; advanced 8:15-9:45 p.m., CRA Building.

STAMP AND COIN—L. R. Wilson, commissioner, ext. 8225. Meeting July 15, 8 p.m., CRA Building.

TABLE TENNIS—C. G. Barton, commissioner, ext. 2294. Play Tuesdays, 7:30 p.m., CRA Building.

TENNIS—Gene Records, commissioner, ext. 6103. Tournament under way, 6-9 p.m., Forest Park Courts.

VOLLEYBALL—A. J. D'Ascenzo, commissioner, ext. 8131. Supervised free play Thursdays, 7-9 p.m., picnic area No. 1, CRA area.

Daingerfield

BRIDGE—J. R. Nazzari, commissioner, ext. 481. Party bridge second and fourth Thursday, 7:30 p.m. See bulletin board for location.



PARTY LINE—Mr. and Mrs. F. B. Thompson pull five skiers—each on one ski—at boat club outing. Skiers are, left to right, Tommy Thompson, 8; Lana Buford, 14; Dyke Hertzler, 14; Tamara Thompson, 13; Sammy Hertzler, 8.



ENGINEER — Patricia Ludeman, Convair Fort Worth's first woman engineering co-op student, takes closeup look at engine nacelle on Convair's supersonic B-58.

Co-op Student Back in School

Convair Fort Worth's first woman engineering co-op student is back in school after completing her third work tour. Indications are that she'll soon be a full-fledged engineer.

The employee-student is Patricia Ludeman, who rotates between the Convair co-op job and classes at Northwestern University, Evanston, Ill.

"Her work record here is very good," said R. H. Huggins, engineering co-op coordinator.

Miss Ludeman did her first Convair tour with the test lab, and returned for two three-month sessions with electrical design, where she did layout and detailing of wiring diagrams.

After one more co-op session, she will graduate—and already has indicated her desire to work at Convair Fort Worth after graduation.

The Convair co-op program provides on-the-job training for engineering school students, who alternate between school and job. About 50 students from 16 cooperating schools now are at work in the plant.

Schools recommend top students to Convair on basis of their record and interest in school. Convair then selects the students it will accept as co-ops.

Huggins said Convair Fort Worth has a fine record with the program, with most graduating co-ops returning to work for Convair permanently.

Electrician Collects Daingerfield Award

An electrician, W. C. McGraw of Convair Daingerfield, boosted his earnings last month when he received Daingerfield's largest Employee Suggestion award on record.

McGraw's winning idea was to label all plant electrical switches to show equipment operated by each switch, and voltage of each. Switches are painted various colors to identify equipment controlled by them.

A certificate of award and a \$125 check was presented by J. T. Carroll Jr., superintendent of maintenance.

Air Industry Cautioned on Cost Controls

It's up to aircraft industry employees themselves—and not only managers and supervisors—to see that costs paid by the U. S. Air Force do not cost those same employees their very jobs.

That—in essence—was the sober warning issued by one of the USAF's top procurement men at a conference in Washington this month with editors of the nation's major aircraft companies.

The speaker was Col. R. G. Ruegg, director of procurement and production for the Air Force on the staff of Lt. Gen. C. S. Irvine, AF deputy chief of staff. He spoke to aircraft industry editors present for a conference of the International Council of Industrial Editors.

"We must have help on costs from employees themselves," said Colonel Ruegg. "Industry managers and supervisors are aware of all this."

Employees themselves however can help do the job—and help assure jobs for themselves and their companies—by doing careful and cost-conscious work, he explained.

In companies where employees do otherwise, the companies may find themselves without AF contracts—and the employees without jobs. Colonel Ruegg made this plain.

Improved capabilities are required of new AF weapons systems, but the AF will not—and can not—tolerate geometric increases in costs.

At the same time, Colonel Ruegg had reassuring words for employees in companies (such as Convair Division of General Dynamics Corporation) which produce both piloted aircraft and pilotless missiles.

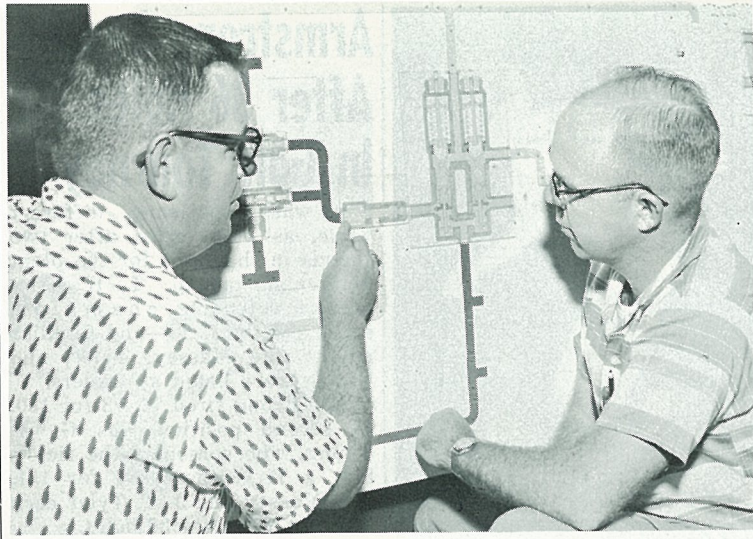
The Air Force, he said, plans for some time in the future to maintain a "balanced force" which will include both manned aircraft and pilotless missiles.

Contracts calling for mass production of thousands upon thousands of military aircraft, however, are things of the past. The trend is the other way. For example, Convair produced thousands of B-24 bombers of World War II fame. In B-36s, the requirement was a few hundred (383).

Two basic reasons were cited for the smaller orders in numbers. For one, the newer weapon systems boast higher capabilities so that fewer were needed to do a job. And secondly, the newer weapon systems are so much more costly that relatively few in number can be afforded.

"This again emphasizes the need for added reliability in the weapons we DO produce," said the colonel. "And this improved reliability comes largely from improvements in basic design and careful work on the part of employees all along the line."

Colonel Ruegg emphasized that the Air Force recognizes no altitude ceiling on its sphere of operations—neither the stratosphere, ionosphere nor other segment of space, but that it intends to operate weapon systems at whatever altitudes are required to do the jobs that have to be done.



LAYOUT—R. L. Massey of illustrations section of service engineering and J. K. Anderson of training aids are working on layout of panel for first mobile training unit for Convair's B-58.

First Mobile Training Unit For B-58 Under Construction

(Continued from Page 1)
electrically interconnected to demonstrate gear operation and system flow simultaneously.

To learn about flight controls, students will sit in a mock cockpit and use the "stick," which operates miniature control surfaces.

An ejection seat panel, powered by compressed air, adds realism to that phase of the training.

"When the student properly operates the ejection controls," said C. H. Zimmerman, project design

engineer, "he actually gets a kick in the seat of his pants."

Zimmerman said the Air Force now places added emphasis on mobile training units because, in many cases, they provide the only training that some Air Force people get.

"We are attempting to make this unit more detailed than ever before," Zimmerman explained.

Some panels are already under construction by the development department, and others are nearing completion in design stages.

An Air Force instructor is assigned to each panel after the unit is delivered. He uses the panel in regular classroom sessions to train crews.

"He nurses the panel like a baby," said Zimmerman. "He maintains it and keeps it up to date."

Panels will be prepared to illustrate operations of all systems in the Hustler, including air conditioning, fuel, hydraulic, etc.

Last training units built at Fort Worth were for the B-36. Ten sets were delivered to the Air Force.

Design Specialist Heads IAS at FW

J. M. Barney, design specialist at Convair Fort Worth, now serves as chairman of the Fort Worth section, Institute of Radio Engineers. He was installed June 6 for the 1958-59 term.

Barney was assistant research professor at the University of Florida before joining Convair last year. He holds a doctor's degree in electrical engineering.

FW Now Writes 'Own Tickets' For Air Trips

Making air travel reservations at Convair Fort Worth is now a mere matter of picking up a telephone and waiting for an airline ticket to pop out of a teletype machine.

The operation is made almost automatic by a tele-ticket machine just installed in traffic department's reservation office. It



FAST SERVICE — Marie Mills, right, demonstrates new tele-ticket machine for Ann Long and Sam Keith, chief of traffic. Traffic department telephones airport for tickets, machine prints airline reservation before call is completed.

is the first machine of its type in an industrial plant in this area.

S. E. Keith, chief of traffic, said Convair Fort Worth generates scores of air trips each month. Writing tickets by hand was a big chore.

Formerly, the travel reservation office placed a call to an airline office for each ticket, then wrote out the ticket by hand. Each then had to be validated and entered in accounting records.

Now, a ticket is just a matter of placing the call, then waiting for the ticket to pop out of the machine. Accounting is only a matter of running a simple accounting tape.

The machine, similar to a teletype printer, is loaded with blank tickets. The downtown operator punches out ticket information on a keyboard. The machine at Convair reprints the information on a ticket blank.

Cards Due Now For SMU Study

Convair Fort Worth employees who plan to enroll in SMU graduate classes this fall must turn in pre-enrollment registration cards now, according to H. C. Anderson, training assistant supervisor.

Two other changes also have been made in the Convair-SMU graduate engineering program.

Individuals who wish to participate in the Convair-SMU program now must be accepted by SMU's graduate school. To qualify for acceptance new applicants must take a graduate record examination, which examines an individual's capability for doing graduate work.

A fee of \$6 is charged for the examination. It will be given July 19 at SMU for anyone who has not been admitted as a regular graduate or special student.

Prior application must be made before a person can take the test. Applications are available at the training group for engineers on the second floor, north end of the administration building.

Anderson said applications must be received by the training group for engineering prior to noon, July 11. The applications go to SMU by noon, July 12.

The pre-enrollment tab cards, Anderson explained, are necessary in SMU's new IBM registration system.

"If any employee has any desire to take a course this fall," Anderson said, "he is urged to fill out the card immediately."

Dempsey Appointed Convair Vice Pres.

J. R. Dempsey, manager of Convair Astronautics since its formation, has been appointed a Convair vice president by J. V. Naish, Convair president.

Dempsey will continue as manager of Astronautics Division.

A native of Red Bay, Ala., Dempsey was educated at the

University of Alabama, the U. S. Military Academy and the University of Michigan. He served as an officer in the Air Force from his graduation from the Academy in 1943 until he joined Convair

as a staff assistant to the vice president of long range planning in 1953.

Dempsey became Atlas program director in 1954 and Astro manager in 1957.

Four-Year B-52 Work Phases Out As Quality Continues Excellent

(Continued from Page 1)
moving assembly line, and use of a bar chart for manpower loading.

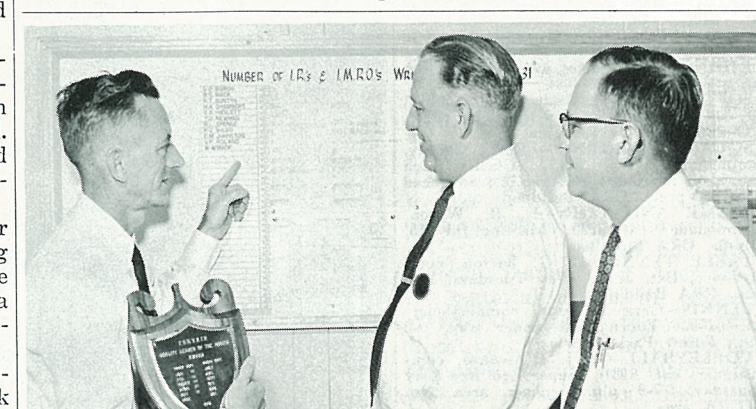
Bar chart loading, he explained, is a timetable by which each job is accomplished during its correct sequence. The moving assembly line insured a smooth flow of units during assembly stages.

"This was one of the first areas in the plant to use bar chart manpower loading," Harwell said. "That and the moving

line were big factors in success of the project. The line more than paid for itself."

Robert Powelson was project coordinator, and Cecil Carter and Harold Wiseman were general foremen on the project. W. J. Clark, assistant chief of manufacturing control, and Jack Costello of tooling also played key roles.

Bulk of employees assigned to the B-52 area were people in Dept. 42. "Everyone concerned did a wonderful job," Harwell said.



THE SYSTEM—D. O. Burch, left, explains his supplemental quality control system to T. E. Hoffman, chief of inspection, center, and E. G. Henderson, superintendent of fabrication. Burch is general foreman of Dept. 31, division's "Quality Leader of the Month."



TOP TEACHERS—Six outstanding science and math teachers in Tarrant County schools received Convair FW "Excellence in Teaching" awards recently, which include gifts of \$250 each. Shown on visit to plant, from left: Virginia Hulse, Mrs. Marion Paysinger, Mrs. Edith Morgan, Gene M. Young, FW Division Manager August C. Esenwein, Richard J. Wilson, Tom Hudgins.



Published every
other Wednesday.



Convair Division of
General Dynamics Corporation.

Convairiety

Vol. 11, No. 21

Wednesday, October 15, 1958

Fort Worth and
Daingerfield
EDITION

Fort Worth news office:
ext. 2961; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS

30-Foot High Christmas Tree Will Grow in Front of Plant

Convair Fort Worth can celebrate Christmas 12 months of the year after the Management Club erects a live and growing Christmas tree in front of the administration building.

August C. Esenwein, Convair vice president and division manager, approved plans for the 30-foot tree, and details are being handled by the club.

Christmas tree chairman J.

B. Seaberry of modernization management said that the club found a red cedar to be best for the purpose. Nurserymen advised that spruce and pine are not as adaptable in Fort Worth.

Seaberry has been negotiating with a local florist, but he said that Convair's tree will come from near Dennison.

The tree will be decorated each year by the Management Club.

\$2,135 in ES Checks Paid In Mass Presentation

Thirty-one Convair Fort Worth suggesters were handed \$2,135.15 this month for saving the company an estimated \$36,012.

A mass check presentation was arranged by M. J. Scott of the suggestion section at the 50-foot aisle.

Assistant Division Manager B. G. Reed awarded \$322.43 to C. L. Colvin of bonded structures, who won the highest award.

Other high winners included T. W. Eakin of plant engineering, \$258.14; W. K. Gardner of machine shop, \$159.74; G. T. Teague of inspection-production, \$138.09; and L. A. Brown Jr. of flight, \$117.22.

F. C. Clayton, chief of plant engineering, I. M. Pemberton, general foreman of Dept. 30, T. E. Hoffman, chief of inspection-production, and B. A. Erickson, flight manager, awarded checks to the second group of high winners respectively.

Two checks totaling \$110 were presented to C. R. Johnson of the finishing department, and A. B. and L. J. Giesen managed to "keep it in the family" when both brothers earned awards.

Sixteen different departments were represented at the present-

ation.

Department with highest number of suggestions was Dept. 30 which won a second consecutive quality award recently.

Runner-up departments in number of suggesters were Dept. 25, Dept. 27 and Dept. 74.

Others who received money at the short ceremony included T. C. Abel, Dept. 64; J. Alcon, Dept. 24; A. M. Arnold, Dept. 24; J. G. Berger, Dept. 25; W. C. Blue, Dept. 30; D. H. Claybrook, Dept. 19; C. W. Countryman, Dept. 30; J. C. Daniels, Dept. 30; and L. E. Gouge, Dept. 30.

Also, R. A. Harris, Dept. 36; H. V. Head Jr., Dept. 64; J. W. Johnson, Dept. 20; M. L. Kays, Dept. 65; W. M. Lester, Dept. 27; A. D. Lewallen, Dept. 74; D. Marvin, Dept. 27; L. A. Nowland, Dept. 25; R. E. Outlaw, Dept. 14; J. R. Pruett, Dept. 48; and W. L. Stanley, Dept. 74.

Others were R. D. Veatch, Dept. 30; H. J. Wood, Dept. 27; B. M. Young, Dept. 32; and M. C. Young, Dept. 25.

Two New Fire Trucks Added

Convair Fort Worth's fire department this month added two new fire trucks which are smaller, cost less and are more effective than the large O-11-A crash vehicles used for the past several years.

Fire Chief C. H. Jones said the new trucks are two-and-one-half ton "Fire Bosses," manufactured by Fire Boss, Inc., of Odessa.

"We can put out as much fire with one of these as with the larger crash vehicles," Chief Jones said.

Requiring only three men with no previous training to operate, the trucks feature two large spheres behind the cab.

The first sphere contains 350 gallons of water, while the rear one holds 1,500 pounds of dry chemical powder.

Pressure for the spheres is provided by nitrogen bottles on the sides.

Other features include 20 gallons of specially treated water for cotton bale fires, 30 gallons of liquid foam, and four 100-pound cylinders of carbon dioxide.



PLEDGES—Pretty Roxie Mapp of labor accounting handles a few of thousands of Con-Trib-Club pledge cards returned during annual membership campaign.

Con-Trib-Club Sign-ups Ahead Of '57 Record

BULLETIN

Con-Trib pledges totaled \$287,894 on the latest report issued before Convairiety's presstime. Participation had reached 87 per cent. But both figures were expected to go up when all pledge cards are worked.

★ ★ ★

Convair Employees' Con-Trib-Club drive last week was running ahead of results reported at the same point in the campaign a year earlier.

On the first campaign report, issued on basis of all pledge cards turned in to accounting department by 3 p.m. Oct. 7, an even 60 per cent of the dollar goal had already been reached.

Pledges totaled \$156,466 toward the goal of \$260,704. At the same point in the drive in 1957, only 49 per cent of the goal had been reached, but employees eventually scored 121 per cent.

Participation on the first report stood at 42.9 per cent, almost the same as the 43.2 per cent scored at the same time last year. Participation in 1957 even-

(Continued on Page 6)

Rep. Wright to Give Washington Report

Congressman Jim Wright of Texas will speak at the Convair Fort Worth Oct. 21 Management Club meeting at the Ridglea Country Club.

Title for the evening's address will be "A Report from Washington." The meeting starts at 5:15 p.m., with dinner scheduled for 6:30 p.m.

In addition to Congressman Wright's talk, there will be music provided by Jimmy Rovitto's combo.



Jim Wright

October's meeting is being sponsored by the quality control departments headed by J. Y. McClure.

The dinner will be open to Management Club members only.

\$150 Prize Money Offered in Decal Designing Contest

One hundred and fifty dollars worth of prize money awaits three Convair Fort Worth people who come up with the best ideas for decals in a contest in the new program on "Handling, Storage and Movement of High Dollar Items."

The contest begins today and closes Oct. 24. Winners will be announced in the Nov. 12 issue of Convairiety.

W. B. Roberson, chief of methods and material handling, is program chairman and also heads the contest for the best "high dollar" stickers to be placed on various items.

"This is just part of our overall program. However, we feel that a good eye-catching decal with a price attached will remind all of us that we must exercise extreme care when handling these easily damaged and easily contaminated units," he said.

Roberson pointed out that identification of these items is one of the most important aspects for safe handling.

Three prizes will be awarded—\$100 for first prize and \$25 each for the two runners-up.

Limited to people on the hourly

payroll, entries must be submitted on a regular Employee Suggestion form. Entries are to be sketched in the place provided on the back sheet of the form.

The Employee Suggestion form should be marked "Special," and the only information required is the sketch, the submitter's name, department, clock number and job classification.

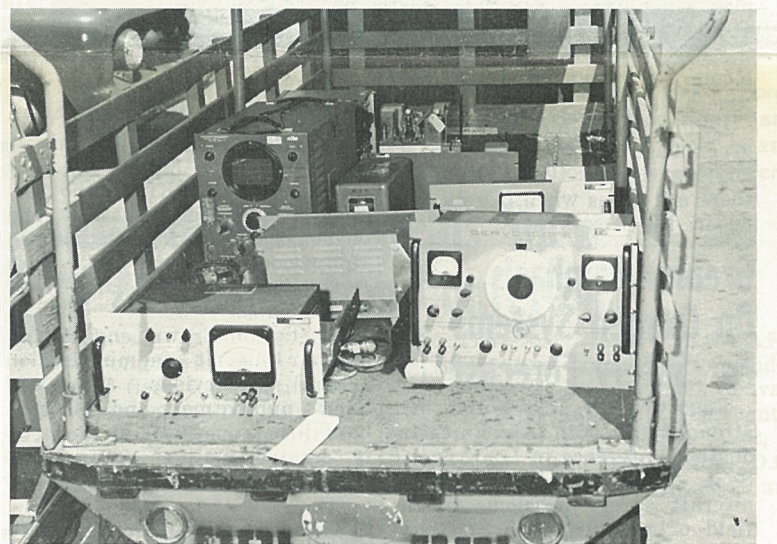
Designs must include a blank space for the dollar value of the item, and all designs submitted become the property of Convair for its exclusive use.

Color is not required but may be specified as well as any other pertinent information the suggester wishes.

The decals made will vary in size with the size of the item they are to identify. Sizes are expected to be from 5/8x1 1/2 to 3x9 inches.

Suggestion blanks may be picked up at the suggestion boxes throughout the plant, and supervisors will provide additional blanks.

Judges for the contest include T. E. Hoffman, S. E. Keith and Roberson. Their decision will be final.



COSTLY—Here is load of typical sub-systems items that look like a lot of other "black boxes"—but this load is worth over \$250,000. Identification of this type item is object of new "High Dollar Contest."

Convairiety Wins Another First, Best in Mid-Continent Region

Convairiety garnered its second blue ribbon first place award as a company publication at the International Council of Industrial Editors mid-continent conference at Austin, Texas, Oct. 1.

The publication was ranked by ICIE judges as first place winner in its category, the second first place award to come Convairiety's way this year. Earlier it was named by ICIE as No. 1 in the nation among newspapers of its type.

In the newest competition, Convairiety was pitted against company publications of the 12-state mid-continent region. Some 150 publications were entered in the competition.

Second place in its category was the publication of the Lone Star Gas Co., Dallas. Third place went to the Vought Vanguard published by Chance Vought Aircraft, Inc., Dallas.

The latest award was announced at the ICIE awards luncheon in Hotel Driskill in Austin Oct. 1, where Loyd L. Turner, special assistant to the division manager

at Convair Fort Worth, spoke on a panel at the conference. The award was accepted by Bob Vollmer, Convairiety's Fort Worth editor.

The certificate awarded by ICIE states that it is "in recognition of exceptional accomplishment in achievement of purpose, excellence of editorial content and effectiveness of design."

Roof Replaced For FW Plant

Convair Fort Worth will have a complete new roof over its head around the first of the year, Shep Lampkin of plant engineering estimated this week.

"There are 1,296,000 square feet that we are working on now," Lampkin commented.

According to Lampkin, new roofing on all of the plant's warehouses is complete with the exception of a few finishing touches.

(Continued on Page 6)

Swissair, SAS Order New Jets

Swissair and SAS last week ordered five intercontinental jet 880 transports from Convair.

Swissair was the purchasing agent, Frank Pace Jr., president of General Dynamics Corporation, said.

Delivery is scheduled for the fall of 1960. The airplanes will fly the airlines' network of routes in Europe, South America, Africa and the Middle and Far East. Amount of the contract was over \$18 million.

Convair President J. V. Naish said the new version of the 880 will have a range of 3,400 statute miles with complete overwater provisions and reserves. He said it will be capable of non-stop operation between Europe and South America as well as between the U.S. and Europe. The planes will carry 85 passengers, 30 first class and 55 economy class.

This brings to 78 the number of Convair jet transports on order. Manufacture is at San Diego Division.

FW Men Elected to Jr. Achiever Board

Larry M. Hayes of Convair Fort Worth's Dept. 2-5 has been elected vice president in charge of programs for Junior Achievement of Tarrant County.

Elected to the board of directors were August C. Esenwein, Convair vice president and division manager, Hayes and M. J. Scott of industrial engineering.

Woodvair, a Junior Achievement Company sponsored by Convair Fort Worth's Management Club, captured top honors recently.



KEY TO FIRES—C. H. Jones, Convair Fort Worth fire chief, hands keys to company's new "Fire Boss" to Fireman S. H. Mason.



BLOOMING—Convair FW's W. M. Counts is shown in his greenhouse, surrounded by some of his orchid plants. Collection includes more than 1,000.

Homebuilt Greenhouse Includes More Than 1,000 Orchid Plants

Although he says raising orchids is merely a hobby, W. M. Counts of Dept. 19 at Convair Fort Worth now has over 1,000 of the once-rare tropical plants and is making plans to grow more.

"If I had owned just a few of these orchids in my 'courtship days,' I really would have been popular!" said Counts as he walked through the 14x20 greenhouse he constructed behind his 2730 Fifth Avenue home.

Counts, one of the five or six orchid growers in Fort Worth, started out a couple of years ago with approximately 40 plants.

The four types of orchids Counts raises include the Cattleyas, Phalaenopsis, Vanda and Cypripedium (lady slipper).

"The orchid is a very sturdy plant—not very difficult to raise at all," he commented. "Winter is the best season for my plants to bloom. A plant produces only once a year."

Counts keeps his pre-fab type greenhouse between 58 and 90 degrees at all times. He says there are times when it gets over 90 in the Texas heat, and the

plants have survived nicely.

Most of Counts' plants retail from \$5 to \$40.

The plants are not grown in soil but in the bark from fir trees.

Orchids are named and registered just as breeds of horses and cattle, and family trees may be traced.

Counts says he does very little work on the plants other than to spray the greenhouse floor with water each morning to keep the plants humid.

"We haven't had a good season in the past two winters, and they're just now beginning to come out of it," he added.

A member of the Dallas Orchid Society, Counts is an assistant supervisor in industrial accounting.

HOLLYWOOD FILM EXPERT TO DIRECT FW MOVIE TAKING

William Perry King, who formerly produced industrial and documentary motion pictures in Hollywood, soon will take over production of Convair Fort Worth films.

E. Stanton Brown, engineering department administration general supervisor, announced King's appointment and said that he will be supervisor of the newly created motion picture unit which makes filmed progress reports.

King comes to Convair FW from Polaris Pictures, Inc., in Hollywood where he was secretary-treasurer. At one time, he was Polaris' president and executive producer.

A former drama student, King became interested in the stage and screen while a student at Carnegie Tech in Pittsburgh, Pa. In 1938 he joined Frederick K. Rockett Co., makers of industrial and documentary films.

King is now moving his family to Fort Worth from their Burbank, Calif., home.

Two Officers Report to BAR

Two new officers have reported for duty with the Bureau of Aeronautics at Convair SD.

They are Cdr. Henry G. McDonough, new assistant BuAer representative, and Cdr. Oscar E. Loeser, who will fill a newly created special projects billet at the SD office.

Cdr. McDonough replaces Cdr. W. A. Matthews as acting assistant BuAer representative. The former received his naval aviator's wings in 1930. For the past two years he has served as executive officer of the aircraft carrier Corregidor, engaged in delivering planes to NATO countries.

New special projects officer, Cdr. Loeser, is an aeronautical engineer and has served as head of the Plant Engineering Division at the Bureau of Aeronautics, and assistant chief of the Office of Industrial Relations, Navy Department.

Prior to reporting to San Diego, he served as industrial relations officer at the Naval Air Materiel Center. He has been an associate fellow of the Institute of Aeronautical Sciences since 1933.

233 Take Special Training Course in Cost and Quality

Two hundred and thirty-three employees of Depts. 57 and 58 (B-58 wing primary and major mating, and B-58 final assembly) have completed special two-hour training sessions concentrating on cost and quality improvement.

Gus Romer of personnel department's training section, said that employees were briefed on the Air Force's new "sampling" inspection procedures (Convairiety, Sept. 17), and on the increasing importance of cost reduction and quality workmanship.

Special instructors were John D. Lanier, foreman in Dept. 58, and P. E. Means, foreman in Dept. 57. Cecil Carter and J. H. Fewell, general foremen of 58 and 57 respectively, commended employees on reduction in out-of-station work.

Automatic Tooling Creates Parts For Wind Tunnel Model

Automatic tooling method at Convair SD has proved its worth in the turning out of parts for a wind tunnel model in one-tenth the normal time required.

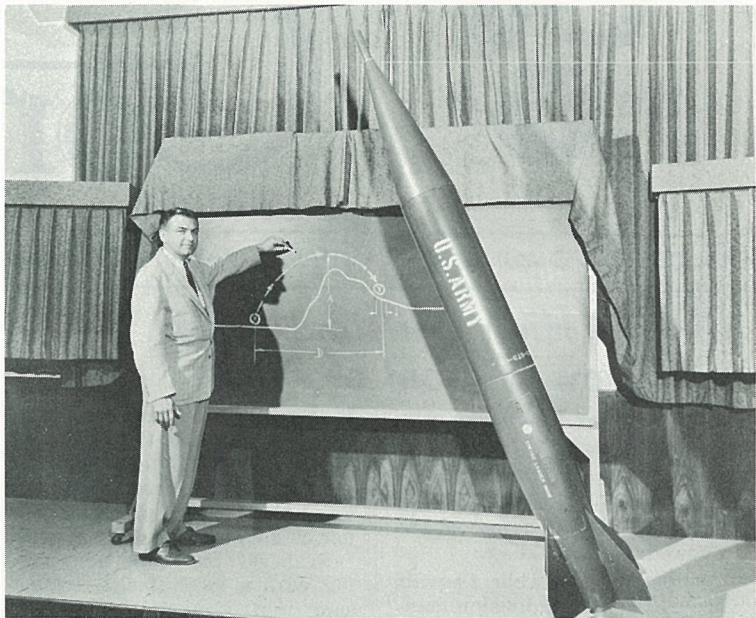
Used as the first practical project on the magnetic tape-controlled Giddings & Lewis profiler at Plant 2, a one-twentieth scale model of the wing for an F-106 was turned out this summer.

Aerodynamic engineers in charge of the project said that the revolutionary method will not only cut time and costs in construction of wind tunnel models, but will result in closer tolerances. The automatic tooling machines can tool parts three times as accurately as humans. It has been found that the machines can work to .001 of an inch, while the nearest tolerance that a man can achieve is up to .003 of an inch.

Set up as the first trial operation of the new numerical control group at Convair SD, R. F. Mawhinney and Fred D. Breuer, aerodynamic engineers, were assigned the job of programming the project from design through construction and testing. Their particular problem was to produce a design of an F-106 wing to lessen the drag. By reducing the thickness of the wing, they felt that they had found the solution, later proved out in tests at the Southern California cooperative wind tunnel in Pasadena.

Using the new design, they set up the engineering equations for the numerical control group, which were converted into directions on magnetic tape for the automatic horizontal miller.

The task, which took only a



SUPPLY LINE—W. F. Chana, managing new Lobber program at San Diego, chalks typical situation in which troops could be supplied by missiles lobbed over enemy territory. Something similar developed in World War II when surrounded troops got supplies in howitzer shells!

Supply Missile Designed For Army Use in Field

Design by Convair of a new system of delivering military supplies to troops in the field—by ballistic missile—was revealed last week by Lawrence B. Richardson, senior vice president-engineering, for General Dynamics Corporation.

Called "Lobber," the missile was developed for the U. S. Army by Convair San Diego.

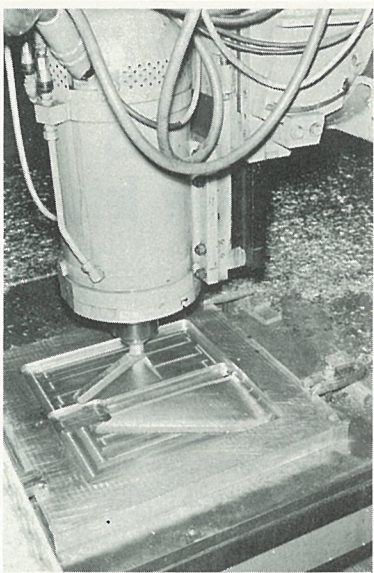
The missile can deliver rations, ammunition, medicines, etc., accurately and in quantity to front-line troops, Richardson said. At least 70 per cent of each missile will be recoverable and can be re-used.

Convair SD studies were sparked originally by a brief newspaper story quoting Maj. Gen. A. T. McNamara, U. S. Army quartermaster general, as expressing interest in a ballistic approach to Army logistics. SD pre-design's Tom Woerschling brought the clipping to the attention of W. E. Strohmeier, chief of Convair SD missile pre-design, who assigned Nash Williams to investigate. Working with Robert Van Tuyl, Williams explored possibilities and a formal

proposal ultimately was forthcoming.

McNamara's foresight, Richardson said, was based on a World War II situation wherein elements of the First Army, cut off during a German counter attack, were supplied with food and emergency material, packed in 105 mm. howitzer shells and lobbed over the enemy's heads into American-held territory.

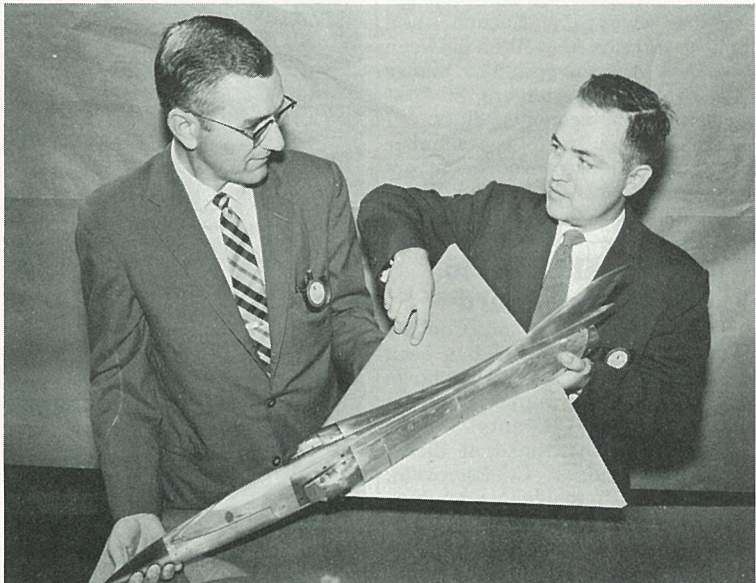
Appointments to a Lobber "project team" were made recently by B. F. Coggan, San Diego Division manager. Heading the project is W. F. Chana, formerly of service engineering, who now reports to Strohmeier. Others on the Lobber "team" include R. H. Ridnour for engineering; A. B. McFarland for manufacturing; E. J. Steeger for test and demonstration; W. H. Moller for military relations; E. A. Brook for planning and scheduling; M. A. Grove for material; J. S. Blakely for accounting.



IN ACTION—Automatic profiling tools wings for F-106 model, more accurately than man-made parts.



"Decisions, Decisions, Decisions!"



LOOK! NO HANDS—F. D. Breuer and R. F. Mawhinney, SD aerodynamic engineers, point to wings on F-106 wind tunnel model, first to be tooled automatically.

First Delta to Pay Visit To South America Gets A 'Big Hand' in Lima, Peru

A TF-102A hopped to South America last month on a good will mission as the first Convair-built jet interceptor to travel so far south.

The aircraft was one of a group of United States AF planes displayed at the Peruvian National Air Force Day observance at Lima Sept. 21-22 as a good neighbor gesture by the U. S. government.

The TF-102A, as prima donna of the show, attracted milling crowds of Peruvians unfamiliar with the delta wing design; carried dignitaries aloft through the sound barrier; and performed successfully, said J. E. Dodge, Convair SD field service representative. Dodge, as Convair's tech rep, accompanied the TF-102A, together with the ground support crew in a C-123.

Flying the Convair jet were Capt. Jack Furrh of EADF, Stewart AFB, N.Y., project officer and coordinator of the trip, and Lt. Jack DeVault of the 325th FIS, Truax AFB.

Taking off from Truax at

was set up at Las Palmas air field.

Special delta wing pins and certificates went to Maj. Gen. Salvador Noya, commanding general of the Peruvian Air Force; Colonel Miguel Gonzales, chief of Peruvian AF training command; and Theodore C. Achilles, U. S. ambassador to Peru, as mementoes of their supersonic rides.

In attendance as representatives of the United States AF were Lt. Gen. Dean Strother, Lt. Gen. Joseph Atkinson, ADC commander, and Maj. Gen. Truman London.

"We were entertained royally all the time we were in Lima," said Dodge, "and found that everyone was extremely interested in our interceptor. All were eager to be friendly with the delegation from the United States. The general feeling was that most Peruvians regretted the unfortunate incident which occurred during Vice President Nixon's visit and couldn't do enough for us."

Other U. S. planes on display were a T-33, C-54, KC-97, C-130, SA-16, T-37, and the C-123.

Dodge explained that navigational aids are almost non-existent in that part of the hemisphere, so that the SA-16, an amphibian air-sea rescue craft, and the C-54 were used as radio contacts on long legs of the hop over water. They would pick up a navigational point and orbit as beacons to direct the other planes.

While waiting out a siege of rough weather in Talara, the base commander of the Peruvian Air Force 13th fighter group, Col. Jose Perez, was given a ride in the TF-102A.

Dodge said that the whole excursion was most satisfactory from every point of view. He especially commended the ground crew of the 327th Camron Squadron at Truax for its efficient support efforts in servicing the Convair jet to keep it at ready at all times.

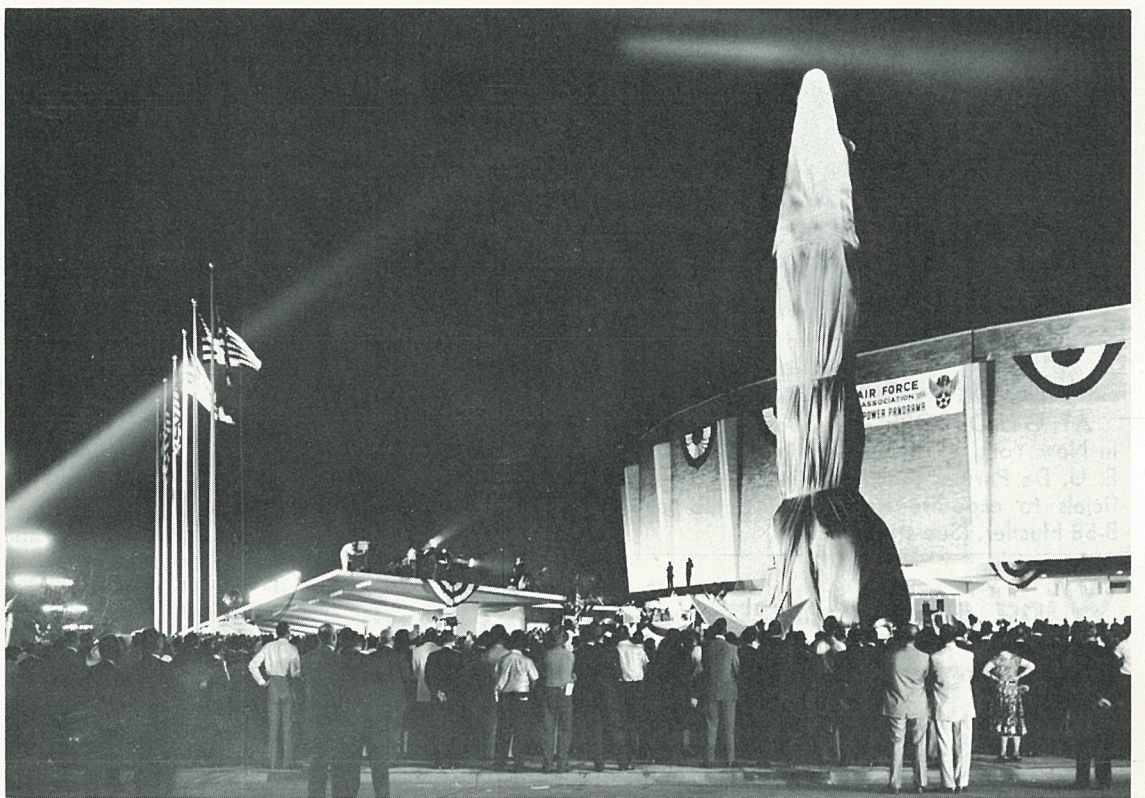
Five Years Ago...

Following are brief excerpts from Convairity of five years ago:

★ ★ ★
Design and production of YF-102 at Convair SD sets new national record for speed of manufacture for prototype of its size and complexity.

★ ★ ★
Lufthansa, new West German airline, signs contract to purchase four Convair-Liner Model 340s with option to buy seven additional.

★ ★ ★
Thomas G. Lanphier Jr., Convair vice president and assistant to the president, is elected president of the National Aeronautic Association.



PREMIERE—Like a Hollywood opening night was unveiling of Atlas missile at Dallas last month. Crowd is shown awaiting dramatic moment in front of Memorial Auditorium. Occasion was Air Force Association convention.

OVER 2,000 ATTEND FW FILM LECTURES ON SPACE SUBJECTS

Convair Fort Worth's 17-week series of filmed lectures on space technology has more than 2,385 people boning up on outer space at Technical High School every week.

The lectures, prepared by the nation's top scientists at the University of California, opened Oct. 6 with about 1,400 in attendance, according to H. C. Anderson, personnel department training assistant supervisor.

First shift participants attend the lectures on either Tuesday or Thursday nights. Second shift employees numbering about 180 hear the lectures in conference room 103 between 12 and 3 p.m. on either Monday, Tuesday or Thursday.

The lectures were made available to any Convair employee and members of his family at cost—about \$4.35 per person for the series. About 350 of those who signed are non-engineers, and 20 to 30 employees arranged for their entire families to attend.

B-36s Competing in Last Championship For Bombing Crown

B-36 intercontinental bombers this week were flying what probably is their last "world's championship" Strategic Air Command bombing and navigation competition.

The simulated bombing missions began Monday and end Friday. Last year SAC crews flew missions exceeding 2,500 miles to simulate bomb runs on Atlanta, St. Louis and Kansas City.

The B-36s, operating out of Castle Air Force Base in Maine, are competing against B-47s and B-52s, as well as against eight top crews of Britain's bomber command. In all, 39 SAC bomb wings are sending 156 of their crews through the rigorous test of man and machine.

B-36s have won the competition several times in past years, but are expected to be retired before the 1959 competition.

Dempsey to Chairman Spring Science Fair

J. R. Dempsey, Convair vice president and Astronautics manager, has accepted a post as chairman of the board for the fifth Greater San Diego Science Fair to be held in the spring.

The fair annually attracts outstanding exhibits of scientific projects of secondary school students. Last year 200 exhibits were shown from more than 600 entries. Winning exhibitors and their science teachers receive expense-paid trips to a national fair.



IN LIMELIGHT—Convair was much in evidence at Air Force Association convention. Shown at General Dynamics booth are, from left, J. V. Naish, president of Convair, Edward F. Jones, Washington public relations, Thomas G. Lanphier, Convair vice president.

Atlas Unveiling Steals Show At AF Association Conference

Convair gave the public its first unguarded view of the nation's first intercontinental ballistic in-being—the Atlas—as well as a prophetic look into the future at the annual Air Force Association conference in Dallas last month.

The Atlas was displayed in shining splendor on the lawn in front of Dallas Memorial Auditorium, and the look into the future came in the Convair futuristic booth inside.

Convair President J. V. Naish joined with Gen. Thomas D. White, Chief of Staff of the Air Force, Gen. Thomas S. Power, commander of Strategic Air Command, and other dignitaries to unveil the 85-foot Atlas in a brief ceremony on Sept. 25. Also participating in the unveiling ceremony was J. R. Dempsey, manager of Convair Astronautics which produces the Atlas.

The missile, which had been erected to upright position in the early morning hours, was shrouded in an Air Force blue cover from top to bottom. Most dramatic moment of the AFA conference and Airpower Panorama came when ropes were pulled away to reveal the gleaming Atlas in the spotlights as an audience of several thousand applauded.

The Atlas continued to be the major attraction throughout the three-day Airpower Panomara, but Convair's booth inside also drew its share of attention with a cutaway model of the Atlas and a three-dimensional view of outer space.

The Atlas model showed how the missile, built by Convair Astronautics at San Diego, can be modified to put a crew of men into orbit around the earth.

Those participating in the AFA conference sessions included Thomas G. Lanphier Jr., Convair vice president, and representatives from each Convair plant, as well as from Washington, D.C., Dayton, O., San Antonio, and other offices.

B-58 Shines Too

Supersonic B-58 Hustlers in the air and on the ground were major attractions at the Carswell Air Force Base air show Sept. 25 for delegates attending the national Air Force Association conference.

Demonstrating B-58s in the air were B. A. Erickson, Convair Fort Worth manager of flight, at the controls of one Hustler, and G. I. Davis piloting another.

Each made two flybys—one at low speed to give spectators a chance to see the B-58 in the air, and a second at high subsonic speeds at low altitude.

On the ground, the Air Force displayed virtually every type jet aircraft in its inventory, but it was the B-58 again which was the center of attraction. Long lines of delegates queued up to take a look inside. Maj. Lee Amos, Air Force B-58 pilot in Carswell's B-58 Test Force, explained interior features.

Sharing the limelight was an F-106 Delta Dart, big brother of Convair's famous F-102 delta wing interceptor. Capt. Henry C. Gordon, who flew the airplane to Fort Worth from Edwards AF Base, briefed visitors on the high-altitude, all-weather interceptor.

Representing Convair Fort Worth at the demonstration was August C. Esenwein, Convair vice president and division manager, and Mrs. Esenwein.



Madison, Wis., the TF-102A hopped first to McDill AFB, near Tampa, Fla. There it was kept on its tight time schedule through the efforts of Convair's representative at Tyndall AFB, Dick Weir, who was instrumental in securing needed replacements in the shortest possible time.

The route led over Cuba, where navigators had to be especially careful to keep the craft from flying over rebel territory where hostilities are still going on. From Guantanamo Bay, Cuba, the planes flew to Howard AFB, Panama Canal Zone, thence to Talara in northern Peru, and on to Lima where the static display



"Too bad about old Schubart... he lost the only book that could show him where to go on his vacation—his check book."



AT GYROSCOPE—At Sperry Gyroscope Co. on Long Island in New York, V. Dolson (right) of Convair Fort Worth worked with E. U. Da Parma, executive vice president of Sperry, and other officials to expedite delivery of bomb-navigation systems for the B-58 Hustler. (See story Page 6.)

Wing and Masque Opens Season Tomorrow Night in 'Nature's Way'

Curtain will rise at 8:15 p.m. tomorrow night on Herman Wouk's "Nature's Way," as the CRA Wing and Masque ushers in



REMODELED — CRA Playhouse now boasts new "director-type" chairs.

the season's opener in a newly redecorated Playhouse at 2966 Parkhill.

Wing and Masque is the first little theatre group in the Southwest to have the opportunity to present the "adult comedy," which had a lengthy run on Broadway last season.

The play will run Oct. 16, 17 and 18 with the last three performances scheduled for Oct. 23, 24 and 25. Curtain will be at 8:15 p.m. each evening.

"We hope all Wing and Masque patrons will try to attend our dedication ceremonies tomorrow night," John Taylor, acting chairman of the board of governors, said.

Redecoration details include a complete rebuilding of the seating area with softer new chairs, a rebuilding of the lobby that includes a new ticket office and a complete new paint job from lobby to dressing rooms.

An additional feature in the redecoration is a special hi-fi sound system which was designed and built by Gene Eicholtz.

Daingerfield Employees Enjoy Annual Barbecue and Picnic

Four-hundred and twenty Daingerfield employees and their families consumed a 450 pound barbecued calf at the recent annual CRA picnic.

Everything from pre-school age beauty contests to sack races and boat riding were included in the day's activities.

CRA President W. H. Robinson

played the Emmett Kelly role when he clowned around with a trick flower squirting adults and handing out balloons and suckers to the youngsters.

E. M. German of Dept. 3-3 had a display of Indian artifacts which he had collected, and W. S. Talk of Dept. 2 gave a fly casting demonstration.

W. A. Reed, general picnic chairman and model airplane commissioner, flew a control line seaplane through a pattern of stunts.

Contests for both children and adults were handled by J. R. Nazzal of Dept. 2.

The day was topped off with a square dance demonstration under the direction of Commissioner L. R. Bell of Dept. 3-3.



'Speaking of Murder' Tryouts Next Week

Tryouts for Wing and Masque's "Speaking of Murder" have been slated for Oct. 20-21 at 7:30 p.m. at the CRA Playhouse at 2966 Park Hill Drive. Director Ben Johnson invites anyone interested to come tryout.

CRA Hamfest Set Saturday

CRA Radio Club will monitor three different frequencies to guide an expected 500 out-of-town "hams" into town for the Fort Worth Hamfest to be held at the Exhibit Hall behind Will Rogers Coliseum this weekend.

The club, in cooperation with the Kilocycle Club, the Arlington Radio Club, the Six Meter Net and the Carswell Amateur Radio Club, is sponsoring the Hamfest.

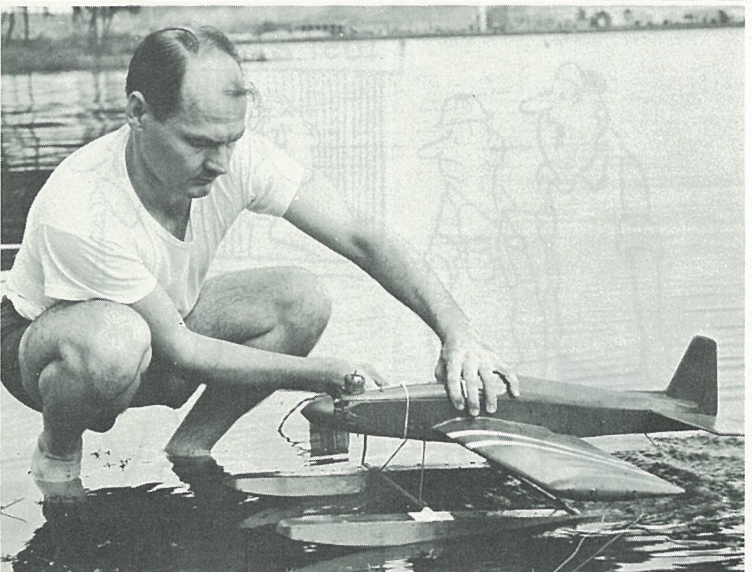
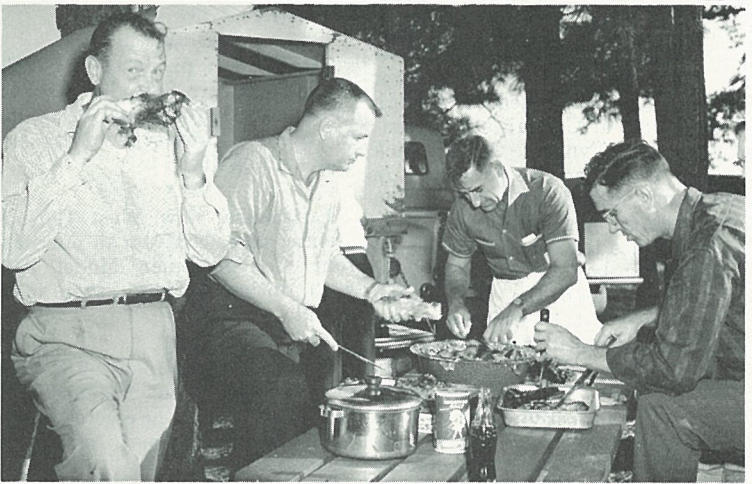
Commissioner Max Schelper says that around 15,000 applications for registration were sent out to a five state area.

He said that a delegation of 25—an entire club—is planning to attend from California.

Seven thousand dollars worth of prizes will be awarded throughout the fest.

A prize for the "ham" who travels farthest will be awarded. According to Schelper, there is one man who has been on his way for some time from New Zealand.

Hams desiring additional information are invited to attend the regular operating night at the CRA radio room tomorrow at 7:30 p.m.



DAINGERFIELD PICNIC—Bob Turner gets into hula hoop contest. CRA Prexy W. H. Robinson clowns with Bruce and Nevita Sapp. L. R. Latch boats with children. Bob Powell, Jim Carroll, Jack Davis, Charlie Forrest and Fred Smith feed faces, as Bill Reed prepares for a take-off.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective September 29:

Dept. 4: to assistant foreman, T. M. Smith.

Dept. 6: to design engineer, J. R. Tucker; to senior design weight engineer, W. Heineman Jr.; to senior nuclear engineer, K. W. Tompkins; to senior aerodynamics engineer, M. E. Herring; to aerodynamics group engineer, A. P. Madsen; to senior propulsion engineer, R. B. Cavanagh; to senior flight test engineer, D. A. Bracco, K. E. Koudler; to structures engineer, J. R. Blacklock; to associate engineer, W. J. Rainwater Jr., J. D. Winchester; to schedules engineer, H. D. Deeds; to engineering administrative assistant, J. W. Jennings, C. W. Spencer.

Dept. 7: to assistant superintendent, I. J. Smith; to sub-systems liaison man, C. O. Tackett Jr.

Dept. 19: to departmental assistant, J. W. Jones; to electronic data processing programmer, G. G. McSpadden, G. C. Phillips.

Dept. 22: to production change analyst, K. H. Boshers; to assistant foreman, J. M. Bridges; Dept. 24: to tool engineer, L. E. Goodman, H. W. Smith; to assistant supervisor, E. H. Littlejohn.

Dept. 27: to quality control liaison man, A. G. Bender Jr., J. D. Dove, R. C. Joplin; Dept. 28: to associate engineer, R. B. Hill.

Dept. 46: to assistant foreman, G. O. Bowling, E. E. Key, R. D. McElroy, A. J. Tidwell.

Dept. 75: to foreman, S. B. Petty, K. J. Preston, F. C. Shipley, A. C. Stepick; to assistant foreman, K. D. Chaney, B. E. Eskew, H. F. Herren, W. P. Holland Jr., J. C. Kane Jr., W. Keith, A. L. Koenning, R. E. Linsteadt, H. L. McKenzie Jr., J. C. Petty, J. B. Thompson, K. H. Wilson, D. E. Windham; to general foreman, W. M. Thrasher Jr.; to assistant general foreman, H. W. Page.

Dept. 81: to assistant foreman, J. F. Norris Jr.; Dept. 82: to assistant foreman, H. H. Russell; Dept. 85: to senior engineer, B. Bradley, W. F. McNeel, F. V. Sutton.

Awards

The following received Employee Suggestion awards totaling \$907.90 for the period ending September 25:

Dept. 24, A. M. Arnold; Dept. 27, H. J. Wood, G. T. Teague; Dept. 30, W. C. Blue; Dept. 33, C. L. Colvin; Dept. 36, R. A. Harris.

Dept. 48, J. R. Pruett; Dept. 65, M. L. Kays; Dept. 74, W. L. Stanley; Dept. 81, A. B. Giesen; Dept. 82, L. J. Giesen.

Retirements

CEAT, W. W., Dept. 96. Original hire date August 31, 1942 (FW), retirement effective October 3. 6613 Harmonson Rd., Fort Worth.

MORSE, R. G., Dept. 4-6. Original hire date August 27, 1943 (FW), retirement effective September 12. 113 Ralph St., Fort Worth.

TERRELL, C. S., Dept. 36. Original hire date February 19, 1943 (FW), retirement effective October 24. 1213 Live Oak, Graham, Texas.

GILL, H. J., Dept. 54. Original hire date July 14, 1949 (FW), retirement effective October 23. 625 Oakwood Lane, Arlington, Texas.

FEARL, R. C., Dept. 26. Original hire date January 22, 1951 (FW), retirement effective September 7. RFD 10, Box 149, Springfield, Mo.

Births

ROLLINS—Jeffrey Lynn, son, 5 lbs. 7½ ozs., born to Mr. and Mrs. W. A. Rollins, Dept. 6-9.

PINZKE—Wendie, daughter, 5 lbs. 8 ozs., born September 28 to Mr. and Mrs. R. W. Pinzke, Dept. 64.

HERRON—Johnny W., Jr., son, 7 lbs. 2 ozs., born September 29 to Mr. and Mrs. J. W. Herron, Dept. 27-1.

Card of Thanks

We wish to express heartfelt thanks to employees of Dept. 22-3 for assistance and kind expressions of sympathy extended during our recent bereavement.

The Raymond Waller family
Dept. 22-3

Winners Named In Color Contest

First place prize went to G. C. Grimes in the September plant-wide color contest, Commissioner M. R. Rogers announced.

Bill Johnson took second, while third and fourth place honors went to Ed Gomez and Marie Orrick respectively.

Judging for the color contest was done by Aaron Murray of the plant's photo lab.

A new black and white contest for class A and B is set for Oct. 22.

Deadline Nears for FW Ceramic Show

Convair people interested in entering the Fort Worth Ceramic Art Guild's sixth annual ceramic show have until 8 p.m. Oct. 23 to make entries.

Those interested should contact Roy Stewart of Dept. 65 at ext. 2795 or Mrs. Stewart at MA 4-9855.

The show will be in the Garden Center of the Botanic Gardens Oct. 25 and 26 from 10 a.m. to 8 p.m. and 10 a.m. to 5 p.m. respectively.

CRA Art Classes Are Under Way at Center

CRA's art classes are in high gear in hopes of unveiling some budding new Rembrandts, Raphaels or Leonardo da Vincis.

Commissioner Ed D. Weimer says that classes are "full up to the brim" with students, and he regrets having to turn down others.

The club is planning to enter citywide competition Nov. 22 at the Art Center.

★ Convairiety ★

First Place Winner
International Council of Industrial Editors

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted. 1071. Staff: Bryan Weickersheimer, San Diego editor; Grayce Fath, Helen Pemberton, FW Editorial Offices, Col. 69C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller. Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

CRA Gardeners Plan Fall Show Next Saturday

CRA Garden Club's first fall flower show will get under way from 2-6 p.m. Saturday at the Botanic Garden Center.

Convair employees interested in entering the show have until noon Saturday.

Details about entry procedures may be picked up at the CRA office and at the CRA area. Air Force and vendor personnel are invited to enter exhibits along with Convair people.

Included in this year's show will be horticulture as well as flower arrangements. A crew of judges from the Fort Worth Council of Garden Clubs will pick winners Saturday between 12-2 p.m.

The Fort Worth Star-Telegram's Ruth B. Zant will speak on "Planning and Planting of Bulbs" at 7:45 p.m. at the club's Oct. 28 meeting at the Garden Center. Mrs. Zant writes a garden column for the paper's Sunday garden page. She is the first vice president and program chairman of the Fort Worth Garden Club and director of a garden study group.

Reade Takes Over Riding, Roping Job

R. S. Reade of customer service (Dept. 85) has been appointed commissioner for CRA riding and roping and has made plans for an organizational meeting Sunday.

Sunday's meeting is slated for 3 p.m. at the CRA clubhouse.

Reade invites anyone interested in any of the ranch area activity to be present.

"We're going to make this club of interest to all phases of western activity," he said.

He's not only planning riding and roping activity but is making plans for square dancing on horses and cutting horse exhibitions.

Riding instruction classes are being organized. Those interested may contact G. M. Cockrell at ranch area for details.



R. S. Reade



EX-MISS TEXAS—Former Miss Texas, Ysleta Bryant, center models latest in fall fashions with daughter Kirby Bryant, left, and Christie Lund at the CRA Fashion Show.

Latest Fall Fashions Modeled at Show For Convair Women

Three-hundred Convair women and guests got a glimpse of the latest fall fashions at CRA's recent fourth annual style show.

For the first time this year, 12 professional models from The Fair were on hand to illustrate the latest mode for children, young and middle-aged women.

Mrs. Arville Patison, president of the restaurant association, catered for the show. Tables gave the effect of the fall season with gold taffeta table cloth to help carry out a bronze and yellow color scheme.

Music for the show was furnished by Neil Weatherhogg of the TCU department of music.

Results Announced For Tennis Tourney

Chuck Sampson, Van Hall and Phil Mahaffey took top honors in the recent tennis tournament, Commissioner Gene Records announced.

In semi-finals singles, Sampson won over Hall 6-love, 6-love. Records won over Mahaffey 6-love, 6-love, then lost to Sampson in the finals 6-3, 6-1.

Doubles semi-finals: Hall and Mahaffey won over Roy Harrison and Lou Perry 6-1, 6-3, and Frank Caldarola and Records won over Sampson and Tom Milton 6-3, 8-6. Hall and Mahaffey topped Caldarola and Records 6-1, 2-6, 6-3 in finals.

Women's Club Slates Bingo Party Tonight At CRA Clubhouse

Ladies will have a chance to win lots of prizes at the CRA Women's Club bingo party at the clubhouse tonight at 8 p.m.

According to Co-commissioner Winnie Leonard, prizes will include cut-glass salt and pepper sets mounted on sterling trays, jeweled lipstick cases, cologne, bath powder, pearl covered tissue boxes and others.

A door fee of 25 cents is all that is required to play throughout the entire evening.

Reservations are not necessary, according to Miss Leonard.

Co-commissioner Mary Smith said that the morning section of the CRA Women's Club will have its bingo party Oct. 22, the following Wednesday at the clubhouse.

The party for the morning group is to begin at 10 a.m. and requires the same 25 cent entrance fee.

CRA Chess Players Plan New Tournament

Commissioner Ed Grimm says that advance registration for CRA's plantwide championship chess tournament begins at 2 p.m. Sunday at the regular meeting.

The championship tournament has been scheduled for Nov. 8 and 9.

Competition will be a seven round Swiss Tournament and will be open for all players in Groups A, B, C, and D. Winners will receive trophies, and medal awards will be presented to the highest ranking woman and child.

Registration for the tourney will be from 9-9:45 a.m. Nov. 8.

Four rounds will be played Nov. 8 starting at 10 a.m., and three rounds will be played Nov. 9 starting at 2 p.m.

According to Grimm, there is no elimination in this tournament. He says win, lose or draw, each player will play in all seven rounds.

Those interested in the chess ladder play should attend the Oct. 19 meeting, Grimm said. He said that Group C had been divided into two groups as it was too large at the last meeting.

Chess enthusiasts who are not receiving the "chess letter" through the plant mail may add their names to the list by contacting John Mandle at ext. 8-323.

Radio Engineers Plan Meeting Next Tuesday

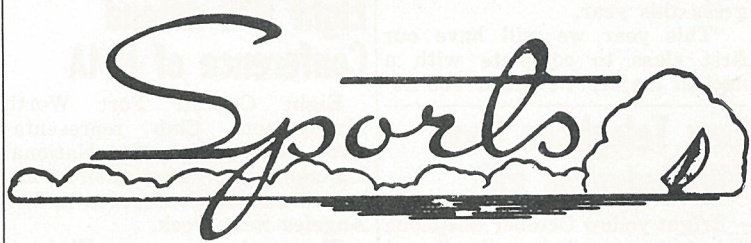
Convair members of the Institute of Radio Engineers will meet at 7:30 p.m. Oct. 21 at the Fort Worth Children's museum.

Orville A. Becklund of Texas Instruments will explain "Fundamentals of Infrared."

Three hundred of the 450 membership is composed of Convair people.



DOUBLE PLAY—Roy Jarl, CRA baseball commissioner, center, awards trophies to Charlie Clark, left, and Stan Standridge for outstanding season with the CRA Bombers at closing banquet.



Baseball Team Receives Awards At Season's Presentation Dinner

CRA's baseball team closed the season with an awards banquet at the CRA clubhouse after latching onto its first City and Northwest Texas championship.

Commissioner Roy Jarl presented the team with special letterman type jackets.

Trophies were presented to three players who joined the team after it had moved into the playoffs.

Hugh L. Inman, director of the Fort Worth City Recreation Association, presented a City Championship trophy to CRA President M. A. "Milt" Stewart. This season's City Baseball

Championship was CRA's first since its origin back in 1949.

Bert Parker, team coach, and Bobby Franks, manager, expressed appreciation for all of the fine team spirit and cooperation exhibited throughout the season.

This year's club was organized last March. It walked away with everything in City League ball and won top honors.

The Convair nine then won over Burkburnett, near Wichita Falls, and cinched the Northwest Texas crown. This put them up against Chance Vought for the North Texas Regional title, but they bowed in a series played in Fort Worth and Dallas.

More Teams Needed For Volleyball Play

Commissioner A. J. "Andy" D'Ascenzo has extended entry for league play volleyball to Oct. 24 in hope that more men's and women's teams will participate.

Blanks are available in the CRA office.

League play practice is going full blast every Monday night from 6:45-10 p.m. at the Southside Recreation Building at 215 West Vickery. New comers are invited.

Volleyballers who do not wish to take part in league play will have a "free play" period from 7:30-8:30 p.m. Monday nights.

The Thursday night free play at the CRA picnic area No. 1 has been discontinued until next spring.

A dance is planned for Oct. 25 at which Jack Grant's combo will furnish music. Tickets are available from D'Ascenzo at ext. 2504 or at the CRA office.

Pinzke Issues Call To Foreign Car Owners

Foreign car enthusiasts interested in forming a local club are urged to contact Roy W. Pinzke of development field operations at TE 8-7029 prior to Monday.

Pinzke is interested in organizing a foreign car club for all types of foreign vehicles—sports cars as well as so-called economy autos.

Hoping eventually to get the organization on a CRA club basis, he has to know the exact number of people who might be interested in participating.

The club will afford an opportunity for "social get-togethers" and will serve as a means of exchanging ideas.

Pinzke is on the second shift but may be reached at his 1124 Blue Bonnet Drive home mornings and on the weekends.

Hoffman in Search Of Plant Music Men

Do you play drums or a piston-type trumpet?

If you do and are interested in playing with other Convair enthusiasts, C. E. Hoffman hopes you'll make yourself known.

Hoffman, who handles drum and trombone, urges employees interested to list their names at the CRA office on the 50-foot aisle.

"We're interested in seeing if there's enough interest to form a drum and bugle corps," Hoffman explained. "We'd also like to get the names of employees and members of their families interested in forming other types of musical aggregations—such as symphony orchestra or concert band."

Hoffman said the wishes of the group itself would determine what type of effort will be made.

"If we wind up with 76 trombones—and no strings—we'd have a bit of difficulty with symphonic arrangements," he said.

Activities Calendar . . .

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, October 15
ASTRONOMY: class, 7:30 p.m., CRA.
BOATING: meeting, 7:30 p.m., CRA.
BRIDGE: duplicate session, 9:30 a.m., CRA.
ROPING: calf roping, 8-10 p.m., ranch area, CRA.
WOMEN'S ACTIVITIES: bingo party, 8 p.m., CRA.

Thursday, October 16
ARCHERY: shoot, 7-10 p.m., archery range, CRA.
ART: class, 7-10 p.m., Fort Worth Art Center.
BADMINTON: play, 7:30-10 p.m., Stripling Jr. High Gym.
DRAMA: play, "Nature's Way," 8:15 p.m., CRA Playhouse.
RADIO: operating night, 7:30 p.m., CRA.

Friday, October 17
ROCKHOUNDS: lapidary class, 7:30 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.

Saturday, October 18
BRIDGE: duplicate session, 7:45 p.m., CRA.
CUTTING AND ROPING: horse cutting contest 6-8 p.m.; calf roping 8-10 p.m., ranch area, CRA.
DRAMA: play, "Nature's Way," 8:15 p.m., CRA Playhouse.

Sunday, October 19
CHESS: meeting, 1 p.m., CRA.
CUTTING AND ROPING: cutting contest 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, October 20
MOVIE: "Assignment Paris" with Dana Andrews. Shown lunch period, 50-foot aisle.

Tuesday, October 21
VOLLEYBALL: free play, 6:45 p.m., City Recreation Building.

Wednesday, October 22
CUTTING: contest, 7-9 p.m., ranch area, CRA.
SKIN DIVING: meeting, 7:30 p.m., CRA.

STAMP CLUB: mixture picking, 8 p.m., CRA.
TABLE TENNIS: play, 7:30 p.m., CRA.
Wednesday, October 22
ASTRONOMY: class, 7:30 p.m., CRA.
BRIDGE: duplicate session, 9:30 a.m., CRA.

Thursday, October 23
CAMERA: black and white contest, 7:30 p.m., CRA.
ROPING: calf roping, 8-10 p.m., ranch area, CRA.
WOMEN'S ACTIVITIES: bingo party, 10 a.m., CRA.

Friday, October 24
ARCHERY: shoot, 7-10 p.m., archery range, CRA.
ART: class, 7-10 p.m., Fort Worth Art Center.
BADMINTON: play, 7:30-10 p.m., Stripling Jr. High Gym.

Saturday, October 25
DRAMA: play, "Nature's Way," 8:15 p.m., CRA Playhouse.
CUTTING AND ROPING: cutting contest 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Sunday, October 26
MODEL AIRPLANE: radio control contest, 1:30-5 p.m., Benbrook area.
MOVIE: "Slaves of Babylon" (color) with Richard Conte. Shown lunch period, 50-foot aisle.

Monday, October 27
VOLLEYBALL: free play, 6:45 p.m., City Recreation Building.
Tuesday, October 28
CUTTING: contest, 7-9 p.m., ranch area, CRA.

Wednesday, October 29
GARDEN CLUB: lecture meeting, 7:45 p.m., Garden Center.
ROCKHOUNDS: meeting, 7:30 p.m., CRA.

Thursday, October 30
TABLE TENNIS: play, 7:30 p.m., CRA.

Friday, October 31
BRIDGE: party bridge, 7:30 p.m., bulletin board lists location.

Daingerfield

Thursday, October 23
BRIDGE: party bridge, 7:30 p.m., bulletin board lists location.



ROCK HUNTERS—Success certainly has not spoiled rock hunters Betty Bayne Shafer and G. L. Allen who managed to bring some unusual specimens to a CRA Rockhound meeting.

Over 500 Fort Worth Engineers Enroll in SMU-Convair Classes

Five hundred and three Convair engineers are now participating in the SMU-Convair graduate engineering program—making Convair Fort Worth's program probably the largest such in the country.

"This is a record enrollment," said H. C. Anderson, personnel department training assistant supervisor. "In fact, this is the largest such graduate program we know of in the United States."

Among the 503 Convair FW engineers taking part in the program, 19 are writing their master's theses.

According to Anderson, 25 are expected to complete their degrees this year.

"This year we will have our first class to complete with a nuclear major," he added. Joe Le-

vine of nuclear engineering completed earlier with a nuclear major, but did so by transferring credits from another university."

Under the SMU-Convair graduate engineering program, an engineer may complete work on his master's degree by taking courses here at the plant. The course is designed so that it is possible to complete the degree in three years.

Fields of engineering offered in the graduate program include aeronautical, electrical, civil, mechanical and MS degrees in engineering with nuclear and administrative majors.

Eight Will Attend Conference of NMA

Eight Convair Fort Worth Management Club representatives will attend the National Management Association's annual National Conference in Los Angeles next week.

The conference runs Wednesday through Friday.

J. L. Budros, personnel manager, is one of the NMA conference leaders.

Delegates to attend include F. E. Carlile, E. A. Cartwright, R. P. Curry, E. G. Henderson, S. J. Middleton, J. E. Topliff, Bob Vollmer and J. N. Watson. All are club officers or members of the board of control.



WINNAH — R. J. Purdy of Dept. 25 at Convair Fort Worth illustrates how his cover guard for open area at front of IBM typewriters is attached. Purdy's Employee Suggestion made him \$100 richer.

Idea For IBM Machine Guard Earns \$100 ES

An idea on how to save wear and tear of Convair Fort Worth's IBM typewriters recently put \$100 in the pocket of R. J. Purdy of Dept. 25.

His Employee Suggestion will save the company an estimated \$1,026 in typewriter repairs in the first year.

Since the underneath section of the IBM typewriter keyboard is open, delicate parts in this area are easily damaged during handling and moving of the machines.

This damage occurs while the machines are being moved about the offices or in transit to maintenance for service.

Purdy's proposal was to place an aluminum plate over the open area by attaching it to the two front base feet and to a couple of screws along the side of the frame.

D. A. Patton (Dept. 6) was recently awarded \$80.40 for the acceptance of his suggestion on how the weekly test lab reports in the engineering test lab could be revised.

Roof Replaced For FW Plant

(Continued from Page 1)

The warehouse roofing was done prior to work now under way on the main assembly building.

Lampkin says the job will take 21,000 tons of pitch and 21,000 rolls of felt—enough to roof 2,000 modest size homes.

The pitch is mixed in special trucks set up at the water towers on the west side of the plant. It is then pumped onto the roof of the building. Other equipment is being hauled up by cranes.

After the pitch has been poured, a special type of felt paper is placed over it. Gravel is then added to the process.

Construction is progressing on the new yard maintenance building northwest of the main assembly building where old B-36 wing docks are being used in construction.

Joint Sperry, AF, Convair Effort Speeds Bomb-Nav

Convair B-58 bomb and navigation systems are now flying and proving themselves with increasing success—thanks to expedited shipments from Sperry Gyroscope Co.'s plant on Long Island in New York.

V. Dolson, who returned in September from a six-month special assignment at Sperry, commended Sperry, Air Force and Convair personnel involved for improving Convair's position in its B-58 flight test program.

Dolson headed a special Convair effort to assist Sperry in its development and production of the bomb-nav system, most highly sophisticated of any system flying today, by providing on-the-spot decisions as requested by Sperry.

Other Convair men called to the scene as required included Paul Ondo of long range planning, Henry Jones, chief of manufacturing control, M. R. Jackson, assistant chief of inspection, Howard Lee, tooling project engineer, C. Allen, assistant chief tool engineer, Frank Saffrons and W. C. Dietz of engineering and R. Kahn, manager of sub-systems procurement.

Purpose of the special effort, Dolson said, was to carry out Convair's responsibilities as B-58 weapon systems manager, and to build up as quickly as possible a supply the bomb-nav systems adequate to support the B-58 flight test program.

"The effort paid off," said Dolson, "for the bomb-nav systems are now flying with increased evidence of success and reliability."

As result of the special effort, Sperry people also expedited shipments of special test equipment necessary to check out the

systems, Dolson said.

"Further, the Air Force cooperated fully by transporting much of the equipment by air—thus saving four or five days in many cases," he added.

He said Convair men at Sperry particularly appreciated the assistance of these Sperry officials: E. U. Da Parma, executive vice president, Herb Harris, manager of the air armament division, George Richroff, vice president-manufacturing, Sam Gabien, vice president-operations and Robert Edwards, manager of Sperry's B-58 project.

As a result of the effort, Gene Von Arx from Sperry has been assigned to Convair Fort Worth for the express purpose of coordinating testing and operational techniques.

Sign-ups For Con-Trib Leading '57 Record

(Continued from Page 1)

tually rose to 91 per cent of all employees.

Thirteen departments topped their dollar quotas on the first report.

They are Depts. 3, 5, 8, 11, 14, 16, 17, 33, 35, 41, 48, 70, and 92.

Five departments rang the bell for 100 per cent participation, although some did so by reason of the fact that they had added employees since start of the drive. Those 100 per cent or better were Depts. 5, 35, 41, 70 and 92.

Biggest dollar amount—\$71,904—was chalked up by the biggest department, engineering, with 4,409 employees. Engineering made 94 per cent of its \$76,401 quota on pledges from only 68 per cent of employees.



HELPING HAND—Convair Management Club President R. P. "Dick" Curry, left, gives \$1,000 check to Steve Youngblood, executive Goodwill Industries director, on behalf of club. E. A. "Ernie" Cartwright, chairman of board of control, looks on.

FW Club Foots Bill For Collection Boxes Which Will Serve Goodwill Industries

Convair Fort Worth's Management Club has presented Fort Worth Goodwill Industries with its first 10 specially made deposit boxes to promote collection of items which may be repaired by the handicapped and resold in Goodwill stores.

Management Club President R. P. Curry and E. A. Cartwright, chairman of the board of control, presented a check for the boxes to Steve Youngblood of Goodwill in a small ceremony in front of the 665 S. Main location.

The boxes are made of steel and were designed and manufactured in Dallas.

Locations for the new deposit

boxes will be at the Ridglea Shopping Center, Westcliff, East Belknap, Richland Hills, East Lancaster and West Berry. There will also be boxes at Arlington, Cleburne and Weatherford.

According to S. E. Keith, Convair Fort Worth chief of traffic and president of Goodwill, operations began seven years ago with four employees. Since that time operations have grown to 117 employees and three stores with a payroll of \$12,000 a month. Goodwill is an agency of United Fund.

Most of Goodwill's income comes from the re-sale of material and items that people have given them.



THE GOOD BOOK—Frank Javarone of Convair FW's fabrication control reads Bible that dates back to 1773—days of the Revolutionary period.

Seven-Inch Thick Revolutionary War Days Bible Handed Down to Convair FW Man

A giant-sized Bible dating back to 1773 during the days of the American Revolution has just come into the possession of Frank Javarone of fabrication control at Convair Fort Worth.

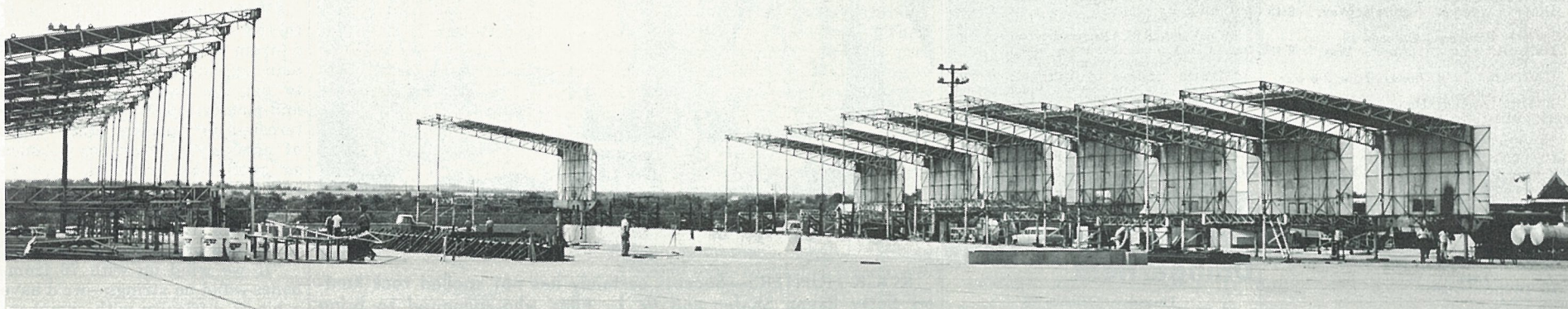
Javarone's sister gave the Bible to his wife after she had kept it for 18 years. He said she had found it wrapped in an old sheet in the attic of her home in Gloversville, N. Y.

The Bible belonged to an early

Gloversville family. Inscribed in the front are the names of the original owners. It was a gift to a Mrs. Jacob Horning from her daughter, Cora B.

Seven inches thick, the book is bound with a leather and wooden cover and engraved with gold. In the back is a place for family photographs.

Also a native of Gloversville, Javarone has been in Texas since 1940 and has eight years service with Convair.



PROGRESS—Progress is being made on construction of new yard maintenance building at Convair Fort Worth. Building is being made out of old B-36 wing docks.



Published every
other Wednesday.



Convair Division of
General Dynamics Corporation.

Convairiety

Vol. 11, No. 22

Wednesday, October 29, 1958

Fort Worth and
Daingerfield
EDITION

Fort Worth news office:
ext. 2961; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS

Con-Trib-Club Membership Soars to 93%

More complete returns this week had sent Convair Employees' Con-Trib-Club drive results soaring past 93 per cent participation and 117 per cent of dollar target for pledges of \$305,995.

"This is a most gratifying response, but not a surprising one," said August C. Esenwein, Con-Trib president.

"It is always a pleasure to see the response of Convair people when the cause is one as worthy as Con-Trib. My sincere thanks go to each and every one of the Convair employees who helped make this record possible."

The 93 per cent participation already had topped last year's high mark of 91 per cent. But further returns from employees on temporary duty outside the city were still expected to edge the figure slightly higher.

As of 3 p.m. Oct. 17, a total of 18,857 employees had signed up in the annual campaign. This compares with a total payroll just before the drive of slightly over 20,000.

The \$305,995 in pledges is almost \$46,000 over the target of \$260,704.

To this point, 12 departments are shown on the report as 100 per cent in participation. They are Depts. 2, 5, 12, 16, 18, 26, 35, 41, 48, 52, 70, and 92.

But 54 of the plant's 63 departments topped 100 per cent of their dollar goals. Among the highest were these with 130 per cent or more: Depts. 2, 3, 17, 18, and 92.

\$1,061 Paid For Convair Idea Reducing Scrap

F. M. Mason had a \$1,000 hike in his savings account this month after the inspection-production employee (Dept. 27-3) became the third largest Employee Suggestion winner in Convair Fort Worth history.

Mason received three checks totaling \$1,061.65 in a brief ceremony in the office of August C. Esenwein, division manager. (Three checks were required because the check-forms are limited to not more than \$350 each.)

"We're always glad to pay good money for ideas like these," said Esenwein.

The idea: simply to provide employees who cut fiber glass with cutting specifications in order to reduce scrap. The suggestion is estimated to save the company about \$21,000 the first year.

If it does, Mason will receive another \$1,061.65 in six months to make up a total of \$2,123.30.

His award puts him up in the company of Joe Rozina, the plant's top winner whose award was \$2,768, and D. L. Campbell, who won \$2,637.

Toy Repair Work to Start Nov. 10 In Barn at Will Rogers Coliseum

Repair work on Convair Fort Worth's recent citywide "Operation: Fix-A-Toy" collection will get into high gear Nov. 10 in the sheep barn behind Will Rogers Coliseum.

Fort Worth Boy Scouts and Cub Scouts helped in the citywide toy collection after they had delivered 55,000 circulars to homes throughout Tarrant County the week before.



BONNIE LASS—Pretty Glenda Herbert wears kilts for illustrator Willard "Dub" Ballew, who worked on Miss Thrifty posters going up throughout Convair Fort Worth this week.

Miss Thrifty Created at Convair To Emphasize Efficient Work

Miss Thrifty, a Scottish-type reminder of the never-ending need to battle against costs, starts getting acquainted all around Convair Fort Worth this week.

But she has her problems—particularly in the person of a dope named Les B. Wasteful, who does everything wrong.

Together, they'll do their best to keep Convair Fort Worth people conscious of costs every hour of the day. They'll appear on posters and handbills all over the plant beginning this

week.

Miss Thrifty, as her name suggests, keeps a sharp eye on ways to cut costs. She always plans ahead to make best use of her time—while Wasteful fumbles and goofs off. She is careful in her use of materials and supplies—while Wasteful wastes them like the dope that he is.

Miss Thrifty, with an eye on her bankbook, turns in Employee Suggestions for cash awards—while Wasteful, broke

(Continued on Page 6)

Doyle, Hatchett and Gant in Race For Management Club Prexy

Ballots will be cast Monday for Convair Fort Worth Management Club officers for 1959.

Official ballots for the election are being tubed out to members today. Voting boxes will be distributed to all department heads and general foremen prior to Monday, and tallies will be counted Tuesday.

C. B. McWilliams, chairman of the nominating committee, sent out "sample ballots" earlier this month which listed all candidates.

Those running for president include C. W. (Smokey) Doyle, Dept. 22; E. E. Hatchett, Dept. 89; and L. R. Gant, Dept. 6.

Vice president contenders are E. A. Cartwright, Dept. 27, and Ken Hargrove, Dept. 4. Vice president for night nominees are H. W. Jenkins, Dept. 57, and Johnny Braden, Dept. 33.

Alice Arnold of Dept. 6 and Jack Dickey of Dept. 25 are in the race for recording secretary, while C. E. Nevitt of Dept. 3 and D. B. Tallon of Dept. 27 are contesting for corresponding secretary.

(Continued on Page 6)

Scores Enter Decal Contest

Winners of Convair Fort Worth's decal contest held in conjunction with the new program on "Handling, Storage and Movement of High Dollar Items" will be announced in the next issue of Convairiety.

The contest closed last Friday after running for 10 days.

T. E. Hoffman, S. E. Keith and W. B. Roberson, judges, are still busy going through the stacks of designs submitted.

Program chairman for the new campaign is Roberson, chief of methods and material handling.

Designs were submitted on Employee Suggestion forms, and the contest was limited to people on the hourly payroll.

According to Roberson, one of the most important aspects of handling "high dollar" items is proper identification. He feels that the new decals will help reduce rough handling and damage to costly items.

Cost Cutting Key To Job Insurance Says Esenwein

"We must take a good look at everything we do to see how substantial chunks of money can be cut out of the cost of the B-58.

"If we do not do this, the Air Force will have no way to deal with increased costs except to reduce the number of aircraft we build."

That was the statement of August C. Esenwein, Convair Fort Worth Division manager, in his series of October conferences with members of middle management. The same word was being spread in Convair management development sessions conducted by the personnel department's training section.

"Every dollar of increased cost makes it more difficult for the B-58 to compete for Air Force business against other weapons.

"And we've got more competition for the Air Force dollar now than ever before in history. The amount of money the Air Force spends on aircraft has already dropped somewhat in order to leave money for missiles and spacecraft.

"This trend very likely will continue for some time to come, although I do not believe the day will ever be reached when missiles take over completely.

"I believe—and people in the Air Force believe—that a mixed force is necessary as far as we can see into the future.

"But we all are in intense competition with every other program—missiles, spacecraft and other types of aircraft. And whenever more AF money is needed for one item, less must be spent for something else."

Esenwein pointed out that in the past when costs exceeded estimates, the Air Force found ways to pay the added expense. But it will no longer do this.

"On our B-58 production contract, if costs go up, the Air Force will simply reduce the number of aircraft it buys.

"And if the number is reduced, the number of jobs available for Convair employees goes down accordingly."

In explaining the vital necessity to bring down costs of the B-58, Esenwein also stated that it is now in competition with the latest model B-52. This aircraft,

(Continued on Page 6)

Public Views Convair FW's Test Reactor

Texasans got to see the first public display of Convair Fort Worth's famous ASTR (aircraft shield test reactor) during the last two days of the State Fair this month in Dallas.

The nuclear reactor was on display for the public in front of the Hall of State as a part of the southwestern industrial exhibits in which other aircraft companies were participating.

After the reactor was loaded onto a truck at Convair Fort Worth, E. J. Brunner and J. Pugh of nuclear engineering accompanied it to Dallas.

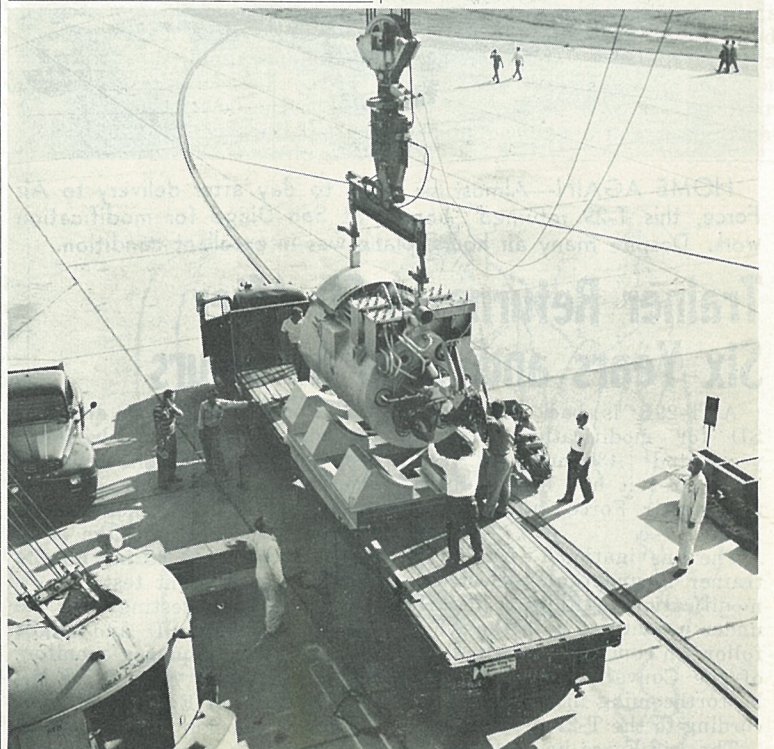
Convair nuclear engineers J. B. McGuffin, G. T. Cramer, S. N. Kemp, and C. W. Dickinson were on hand both days to answer questions about how the reactor was used in test flights of the recently scrapped NB-36H.

The test program was conducted under contract with the Air Force's Wright Air Development Center for the purpose of gathering data for the design of the world's first atomic powered aircraft.

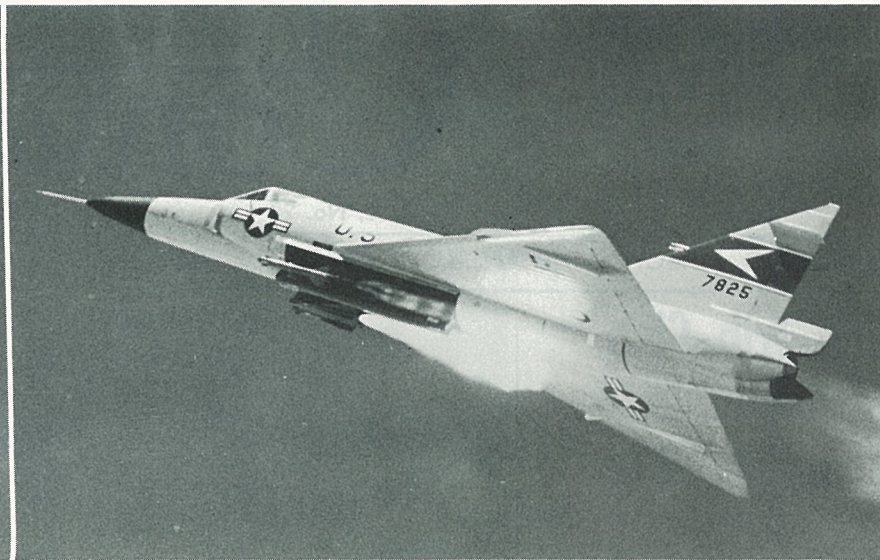
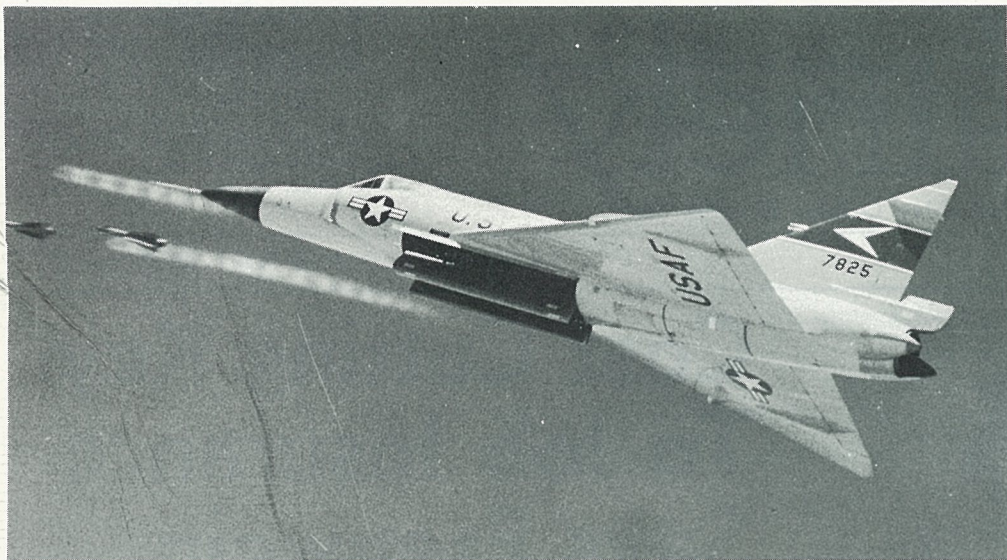
McGuffin and Cramer said that they felt the Convair exhibit was a success, as there were thousands who stopped to view the reactor.

While on display, the reactor was not operating, of course. Its fuel elements were removed before it left Convair Fort Worth, and it was thoroughly checked by Convair health physicists to make certain that it was not emitting dangerous levels of radiation.

Any radiation present, said Health Physics Administrator Frank Paschal, was nullified by the distance between the reactor and the public viewing it.



EASY DOES IT—Convair Fort Worth's nuclear engineers load reactor on truck headed for industrial exhibition at State Fair in Dallas.



UNDER COMBAT TEST—At USAF World-Wide Weapons Meet last week at Tyndall AFB, Florida, F-102s showed their teeth, attacking jet-powered drones in

10-day competition. Above, three Falcon missiles zip toward target. Missiles are fired automatically at 50-millisecond intervals.

European Airlines Looking Ahead To Age of Jet Transport Travel

European airline operators are making substantial strides toward preparation for the commercial jet transport age, a Convair SD customer service team reported this month on return to San Diego.

Five Years Ago...

Following are brief excerpts from Convairity of five years ago:

★ ★ ★

Fourteen Convair-Liners depart San Diego during October, marking largest single month's delivery of 340s in history of program.

Convair's delta wing jet seaplane, Sea-Dart, is scheduled for first public appearance at SD's Open House celebration next month.

New type main landing gears are installed on B-36s at Convair Fort Worth to enable big ships to carry increased bomb loads.

First YF-102, Convair's all weather supersonic interceptor built for the Air Force, flies one week ahead of schedule.

Supersonic wind tunnel and ram-jet engine testing facility at Convair Daingerfield is toured by members of Institute of Aeronautical Sciences.

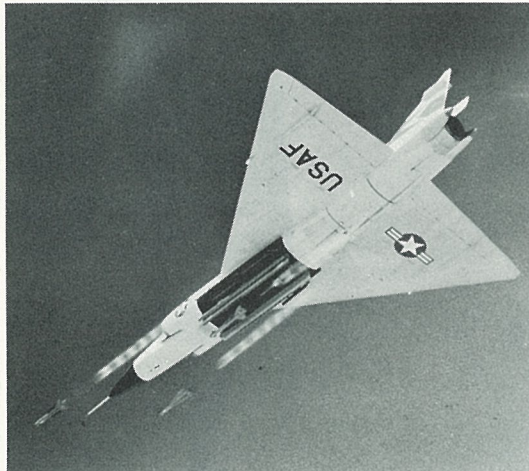
L. J. Bordelon, chief of transport service; John Doig, chief of service parts; G. G. Green, chief structures engineer; Don Germeaad, engineering flight test pilot, together with Ted Laven and Tex Williams of the European office, represented Convair at the annual technical meeting of the International Air Transport Association at Monte Carlo.

The conference dealt with new conditions which will be required by the jets, ranging from refined airport landing and takeoff procedures to a higher level for maintenance requirements. The Convair representatives explained requirements that would affect the 880 and 600.

Following the meeting Bordelon, Doig, Germeaad and Laven went on to contact Convair customers throughout Europe. "The tour of airline customers was most gratifying," said Bordelon. "At every point we were met with assurances of satisfaction with performance of our planes, Convair's technical and spares support, and service rendered by representatives in the European area."

MSTS CLERKS COMPLETE PROCEDURES COURSE

Completion certificates were awarded this week to 16 department clerks at Astronautics MSTS who attended a five-week course in office procedures taught by C. J. Estrada.



ANOTHER VIEW—This is how F-102 looks from almost directly underneath. Missile bay doors snap open, Falcons are on their way and bay doors snap shut—elapsed time: less than three seconds!

F-102s Fire Live Falcons In Fla. Weapons Meet

For the last ten days, Convair F-102s from four crack Air Force squadrons have been ranging over the Gulf of Mexico, firing missiles and rockets in "anger" during the USAF's World-Wide Weapons Meet at Tyndall, AFB, Florida.

Results of the annual competition, called "Project William Tell," will not be available until later this week.

Targets for the F-102s (as well as F-89s and F-86s which also are competing) were free-flying jet-powered drone targets capable of 50,000 feet altitude and 600 mph speed. Realistic combat conditions were reproduced as faithfully as possible, with aircraft "scrambling" to perform their task of "detection, identification and destruction" of targets.

The targets were carried aloft by bomber and released at altitude over the gulf. Controllers directed the drones' evasive movements by radio.

Each team of three interceptors was required to fly a total of six missions, four above 30,000 feet and two between 5,000 and 15,000 feet. Each team was allowed one firing pass.

Early reports from Tyndall indicated F-102s started scoring bull's-eyes right off the bat in this most realistic short-of-war test yet devised.

Col. Roy B. Caviness, team captain for the 482nd FIS from Seymour-Johnson AFB, representing the Eastern Air Defense Force, personally blasted two drones on successive days.

F-102 teams included the 317th FIS from Elmendorf AFB, Alaska, representing the Alaskan Air Command, captained by Col. John T. Shields; the 318th FIS from McChord AFB, representing

Western Air Defense Force, captained by Col. Charles W. King; and 326th FIS from Richards Gebaur AFB, representing Central Air Defense Force, captained by Col. John H. Bell.

A Convair SD delegation of observers was present during most of the meet, including Al Higgins, assistant to the SD Division manager—military relations. Also from military relations were K. W. Brownlee, R. M. MacIver, H. J. Richardson. B. F. Coggan, SD Division manager, was expected at Tyndall today and tomorrow.

Five Convair field service engineers took an active part. They are R. G. Weir, permanently assigned to Tyndall, D. N. Miller, who accompanied competing aircraft from the 317th FIS at Anchorage, Alaska, S. W. Orpin, who accompanied 482nd FIS aircraft from Goldsboro, N. C., G. S. Mathews, with planes of the 318th FIS at Tacoma, Wash., and B. J. Bernhardt with F-102s of the 326th FIS at Grandview, Mo.

Each FIS sent five aircraft to the meet, three for competition and two in reserve capacity. F-102s competed among themselves, as did F-89s and F-86s.

Prospects Bright For Europe Sales

Future sales prospects in Europe for Convair jet transports are considerably brighter as a result of the Swissair-SAS order, J. G. Zevely, Convair director of contracts and commercial sales, said this week on his return from Zurich, Switzerland.

"This will be a forerunner and I expect many others to follow," he commented. "Swissair and SAS fly east to Tokyo, south to Johannesburg and west to Rio where 880 competition will be keenly felt by a great many of the world's airlines. We feel confident that these lines will find, from analysis, that the 880 is the only way to meet the competition."

Zevely was accompanied in Zurich by SD Chief Engineer Ralph Bayless. Also figuring in the negotiations were members of the Geneva Office headed by George Prill, European manager.

Richardson to Speak At Dallas Luncheon

L. B. Richardson will deliver the luncheon address at Adolphus Hotel in Dallas Thursday, Nov. 6, at the North Texas Conference on Utilization of Scientists and Engineers.

Richardson, senior vice president-engineering of Convair's parent General Dynamics Corporation in New York, will be introduced by August C. Esenwein, Convair Fort Worth Division manager.

Title of the talk is "Incentives for Scientists and Engineers."

Convair people on the program include Frank Davis, chief engineer at Convair Fort Worth. Frank Clayton, chief plant engineer, is a member of the program committee.

Nuclear Engineering Degree Granted

Convair Fort Worth's J. H. Levine of nuclear engineering is the first to graduate in the Convair-SMU program with a master's degree in nuclear engineering.

Levine received word from SMU this month that his graduate work had been approved and his master's had been granted.

He entered the SMU graduate engineering program in 1953 while at Chance Vought. Levine's thesis concerned "Methods of Predicting Radiation Damage and Their Applications to Electron Tubes."



HOME AGAIN—Almost six years to day after delivery to Air Force, this T-29 returned "home" at San Diego for modification work. Despite many air hours, plane was in excellent condition.

Trainer Returns to SD After Six Years and 4,438 Air Hours

A T-29B is back in Convair SD for modification, just six years and 4,438 hours of flying time after it had been delivered to the Air Force in the fall of 1952.

The navigational bombardier trainer is undergoing electronics modification in Bldg. 3, Plant 1, under a contract with the AF. A follow-on contract involving more of the Convair-built planes may be forthcoming in the future, according to the T-29 project office.

The Air Force has selected the T-29B as suitable for conversion to an airborne monitoring platform to be used at Eglin Gulf

Test Range, Fla., before and during missile tests. It will be flown over the 400-mi. missile range to check out ground radar and telemetering stations, to monitor frequency interference in the area, and to record data during missile launching and flight tests.

Initial flight testing will be done at Convair SD and flight tests for the frequency monitoring interference control (F.M.-I.C.) systems at Eglin.

Plant 1 mockup and proofing department is in charge of modification work on the first plane with completion scheduled for May, 1959.



"Look, Dear! I've decided to save money on feeding my ulcer."



OVER QUOTA—Col. Leonard R. Hall, seated, Convair FW Air Force plant representative, turns over a 128 per cent contribution from the AF organization to Carswell AFB United Fund chairman Lt. Col. William J. Garland.



PRE-FAB—Put together by sections, reminiscent of "Tinker Toys," is this "building within a building" at Astronautics plant. It is a parts center for Atlas missile and stocks 22,000 different items. At left above: one of many corridors, with D. F.

Fluhart, R. E. Champagne and Domingo Cano filling orders. Center: open work area, second deck, with Milo Lilio unloading lift. Others are Bill Armstrong and Joyce Hankins. Note perforated floor. Right: Louis Jenkins loads conveyor belt.

TF-102 USED FOR SPACECRAFT TESTS AT EDWARDS AFB

A Convair TF-102 jet trainer is figuring prominently in tests preliminary to the first flight of the X-15 rocket research aircraft.

A specially-instrumented TF-102 currently is being flown at the Air Force Flight Test Center, Edwards Air Force Base, to test full-pressure suits that may mean the difference between life and death to pilots flying the X-15 spacecraft.

First testing of the suit was made last month when North American test pilot Scott Crossfield donned the aluminized suit, known as the MC-2, and went aloft with Lt. Col. Howard M. Lane, acting chief of flight test operations, at the controls of the side-by-side TF-102 trainer.

Air Force officials have stated that altitudes and pressures that the pilots will face in the actual X-15 flight can be closely simulated in the specially-modified TF-102. The X-15 program calls for 100 hours in the suit for each pilot scheduled to fly the spacecraft.

Lt. Col. Burt Rowen, chief of the center's human factors branch, is coordinator on this phase of the X-15 program, and Capt. Robert E. Hedblom, aviation physiologist, is project officer for the TF-102 tests. Convair Edwards personnel are providing some support engineering for the project.

Toastmasters Elect All-Convair Slate

An all-Convair slate of officers heads the Northeast Toastmasters club No. 392 following recent elections.

W. F. Moran (Dept. 6) is new president; John George (Dept. 6), educational vice president; Irving Gere (Dept. 6), administrative vice president; Robert Mohr (Dept. 233), secretary; John Bowman (Dept. 233), treasurer. Fred Fox of Astro Dept. 191-0 is sergeant at arms.



OVERALL—Outside procured stores for Atlas, valued at over \$11 million, are stored in this unique center. It's three stories high and there's room for another!

B-58 Will Fly to Alaska For Cold Weather Test

Carswell AFB's B-58 flight test force, accompanied by some 87 other officers and enlisted men, will start migrating from Fort Worth to Eielson AFB in Alaska Nov. 25 to participate in a series of "evaluation tests" as a part of "Operation: Raw Deal."

The evaluation tests are expected to last through March 15, according to Carswell B-58 test crewman Capt. Perry Amidon.

The crew will evaluate all sub-systems of the Hustler in tests scheduled for temperatures down to 50 degrees below zero. Most of the tests, however, will be carried on around 20 degrees below.

"If everything works out as we are expecting, we may get back to Fort Worth prior to the middle of March," Captain Amidon added. "We'll all be away during the Christmas holidays—that's for sure."

Carswell's 90-man delegation will become a part of a big task force during the Alaskan project, Captain Amidon said.

Supplies and equipment were loaded onto a C-124 at Convair FW last week.

The "main body" of participants leaves Nov. 25, but Maj. Kenneth Lewis, Maj. Jim Zwyer and Captain Amidon will fly the B-58 up on Target Day—Dec. 1.

Major Lewis will be project officer for the B-58 detachment.

C-124s are being used to transport most of the main body.

Majors Lewis and Zwyer and Captain Amidon recently returned from Eglin AFB in Florida after taking the B-58 through a series of cold weather tests in the Air Force's climatic test hangar.

F-106 Next Month Will Go to Alaska

By coincidence, an F-106 will be in Alaska at approximately the same time as the B-58, also undergoing cold weather testing.

The airplane, now at Palm-dale being readied for the trip, will fly north in mid-November. Although the testing will be an Air Force show, Convair men will be assisting, including Dave Johnson, field service engineer, and E. P. Griesell, spare parts field representative.

Industrial Relations Certificates Earned

Convair SD and Astro people made up more than half of the group receiving certificates in industrial relations from the University of California Extension Oct. 17.

The awards were given for completion of at least eight courses of college level study in the industrial relations field.

Convair Astro graduates were Wilbur E. Aiken, Dept. 322; Norman D. Baird, Dept. 290; Paul O. Dunn, Dept. 756; and James E. Hanratty, Dept. 130.

Those from Convair SD included Roy T. Bailey, Dept. 280; Jack H. Denson, Dept. 6; J. H. Grisham, Dept. 3; Della Ruhnow, Dept. 4-0; Warren K. Thomas, Dept. 95; D. G. Walton, Dept. 6; and Wilmer F. Weidenfeller, Dept. 3.

Three-Story 'Building' Inside of Atlas Plant Is Center For Parts

Climbing toward the ceiling of the highest portion of the Astronautics factory building on Kearny Mesa is one of the most unusual handling centers found among Convair's many material operations.

This "three-storied" center is Astro's outside procured stores (OSP) area which overlooks the final assembly line and stands handy to both assembly and fabrication operations.

Through its more than 30,000 square feet of shelf space flow the majority of parts, supplies, etc., turned out by more than 1,200 firms in 32 states who are "primary suppliers" for the Atlas missile program. However, it does not handle goods classified as "government furnished."

Basically, it is responsible for small stores ranging from intricate electronic components to simple nuts and bolts, pencils, and other office supplies. Larger items move directly to assembly points or await use in storage at Astro's Westgate Warehouse.

The center is one of the functions under John Ruzich, Astro's chief of stores and traffic. Marvin Goodall is the general supervisor; John Walsh, the area foreman.

The all-steel structure is fire-proof. It is composed largely of storage bins positioned in long rows and stacked one atop another. These form the sides and basic structure. Except for open work areas on each level, there are no supporting posts or beams. Perforated (expanded metal) floors allow for free passage of air and each row is open at both ends. Shelves in each bin may be easily adjusted to accommodate various size containers. Overhead lights move on tracks and can be concentrated in any given area. Scales for weighing smaller items are centrally located.

There are two enclosed lifts, one at either end of the area.

Two stairways lead upward from the ground floor and a conveyor belt at one end works both up and down.

However, the 66 employees who man the center on two shifts are assigned to specific levels: Most remain on their specified levels throughout their shift except for breaks and lunch.

"The entire area was designed to minimize walking and climbing," Ruzich said. "At first we planned two levels, then went to three when we found we would add additional tasks to the center."

(Actually, there is still room for an additional floor of storage above the existing area without interfering with overhead cranes.)

Astro currently stocks over 22,000 different items in the center. The stocks would be valued at well over \$11 million at any given time.

The entire area is enclosed and restricted to those working in the center. Two handy withdrawal counters are available.

Parts and supplies are catalogued and placed in containers. Small items may be stored several hundred to a box, while larger units require separate containers.

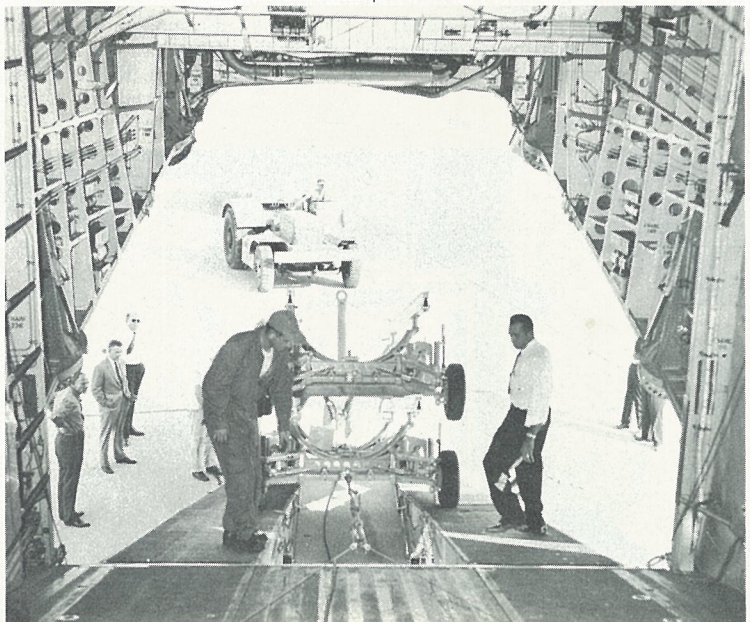
Exacting records in the center are a must. A small force is assigned to making physical inventories and handling records.

Gudgell Succeeding Mattson at Sycamore

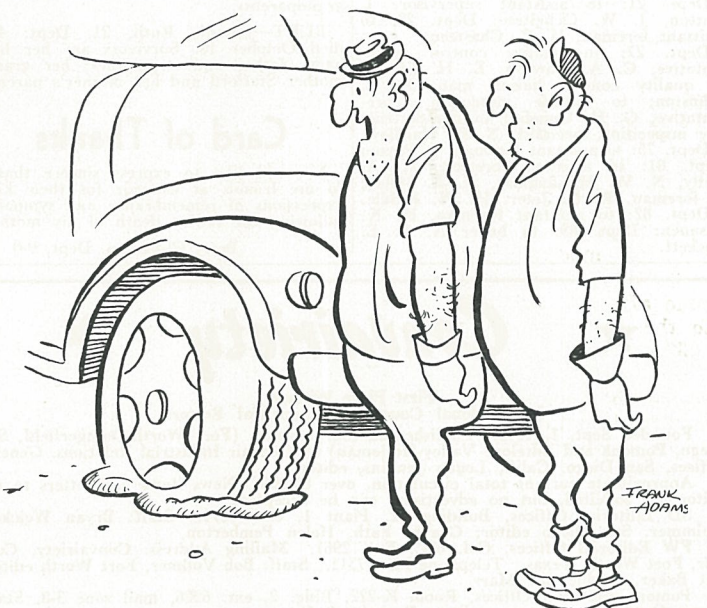
A change in industrial relations assignments at Convair Astronautics' Sycamore Canyon operation has been announced by M. V. Wisdom, manager of industrial relations.

C. K. Gudgell, formerly of Astro labor relations, now heads the industrial relations staff at that site, replacing J. N. Mattson.

Mattson is now at the Astro plant pending a new assignment.



OPEN WIDE—A large Air Force C-124 opens wide to digest equipment to be transported from Convair Fort Worth to Alaska for Air Force's "Operation: Raw Deal."



"Heavens to Betsy!"

Local Thespians Score A Hit 'Nature's Way' At Playhouse

Billy Turk Jack Cordaro
Butler Roy Stechauner
Maggie Turk Paula Halsey
Mr. Chaney Charles Lane
Nadine Fesser Sherry Chamberlin
Vivian Voles Bill Scarborough
Gilbert Price Dick Lederer
Mrs. Fawcett June Randolph
Dr. Bacher Bill Wilson
The Waiter Peter van der Vliet
The Musician Jim Lesueur
Rip Voorhees Gene Turner
Mrs. Voorhees Pat Craig
Dr. Blimber Roger Nicholson

Curtain came down Saturday night on "Nature's Way," Herman Wouk's delightful "adult comedy" which marked the Wing and Masque players' initial dramatic attempt for the season.

The play concerns itself with the problems of Billy Turk, young New York composer, and his pert, Smith College wife, Maggie, who find themselves burdened with unexpected back taxes, a suspicious mother-in-law and a boisterous young Dr. Bacher who has a special way of taking care of young mothers-to-be.

Turk is persuaded to go abroad with his swish-walking collaborator, Vivian Voles, to help raise \$50,000 in back taxes. Voles feels Venice in the winter would be

ideal for writing his new "Black Magnolia."

Maggie is against Turk's accompanying Voles to Venice but finally consoles herself that it would be better for them both, especially since Dr. Bacher keeps insisting that they are like two positive electrical currents and need to be separated a while in order that one might develop negatively.

After Turk and Voles return to New York to audition their new play for a potential producer, Maggie becomes very suspicious and jealous of her husband.

The audition turns out to be a flop, the producer storms out of the apartment, and Maggie has her baby with the help of the waiter who adores Walter—his Hi-Fi set.

Jack Cordaro handled the Billy Turk role nicely, and Paula Halsey was a most convincing Maggie. June Randolph was excellent as usual as Mrs. Fawcett, but it was Bill Scarborough and Peter van der Vliet who must be commended for their wonderful performances in two roles which were completely out of character.

Area Opens for Deer Hunters

Hunting and fishing commissioner B. J. Parrish has found "closer hunting grounds" in the Ouachita Mountains near Mena, Ark. for Convair deer, quail and squirrel enthusiasts.

Parrish is especially happy about the deer opportunities in this region. There are more deer than ever before this year he says. Deer found in the Ouachita National Forest include Virginia White Tail, Black Tail Mule and others.

The deer season at Ouachita opens Nov. 10 through Nov. 15 and from Dec. 8 through Dec. 13.

Leases for the year are \$200 which includes deer, quail and squirrel hunting.

Parrish says one man can pay \$200 and can take two guests for \$10 apiece. Leases may be split among families, too.

According to Parrish, excellent cabins, guides and dogs are also available. Cabins are designed in order that several families may enjoy hunting together.

Distance from Fort Worth to Mena is 291 miles—267 from Dallas.

For further information, Parrish may be contacted at ext. 8326.



BEWITCHED—Lenora Degner of health physics (Dept. 3-5) is planning to make a clean sweep of it Friday night while all of the spooks are on the loose.

Work Begins On Suspense Drama

Rehearsals for "Speaking of Murder," Wing and Masque's second show of the season, recently got under way.

Director for the Audrey and William Roos suspense drama is Ben Johnson.

The heavy female lead went to Doris Franklin who can be remembered for her roles in "Will Success Spoil Rock Hunter," "Seven Year Itch," "The Bad Seed," and "The Women." Mrs. Franklin will play Annabelle Logan.

Betty Guthrie who's experienced in modeling, television and movies will portray Connie Barnes Ashton, the romantic lead.

Other members of the cast include Byron Johnson as Rickey Ashton, Barbara Norwood and Gargi Johnson alternating as Janie Ashton, Virginia (The Lady's Not For Burning) Lederer as Mrs. Walworth, and Jean Ivan as Mildren.

Charles Ashton's role is pending, and Johnson is still searching for a detective to play Mitchell.

"Speaking of Murder" was first presented by Courtney Burr and Burgess Meredith at New York City's Royale Theatre.

Brooks Atkinson of the New York Times says "Speaking of Murder" is a horror show written by the Roos' with poison in their hearts.

Musicians Show An Interest In Symphonic Play

Twenty-three Convair Fort Worth musicians have indicated an interest in the organization of a plantwide symphony orchestra or concert band the CRA office announced last week.

Fifteen of the musicians are from nuclear engineering (Dept. 6-8).

The plea for musicians went out in the last issue of Convairiety by C. E. Hoffman who hopes that enough interest will be shown to have the orchestra as a CRA activity.

Hoffman would like to get the names of employees and members of their families interested in becoming a part of a symphony or a concert band.

He urges anyone who plays a musical instrument that might be interested to list his name at the CRA office on the 50-foot aisle.

"We need more string instruments now. We've got a pretty good brass representation but could always use more," he said.

Hoffman is making plans for an organizational meeting soon.

Provided enough people show interest in the project, and it becomes a CRA activity, the orchestra will rehearse at the clubhouse. Music will be furnished by CRA.

Those who have signed up so far include E. B. Thompson Jr., Dept. 6-4; Gordon Handberg, Dept. 6-1; W. B. Sharples, Dept. 28-1; S. A. Cocco, Dept. 24-1; Louise Bowman, Dept. 10; W. R. McIntosh, Dept. 6-8; R. D. Gish, Dept. 618; H. R. Michero, Dept. 14-2; and D. L. Jacobs, Dept. 6-8.

Also, W. E. Dungan, Dept. 6-8; G. A. Wheeler, Dept. 6-8; G. E. Irby, Dept. 6-8; R. A. Elliott, Dept. 6-8; P. S. Miglicco, Dept. 6-8; E. G. Bylander, Dept. 6-8; J. M. Scott, Dept. 6-8; B. A. Kelly, Dept. 6-8; C. H. Ford, Dept. 6-8; E. E. Chappell, Dept. 6-8; Bob Wallace, Dept. 6-8; Eliot Kerun, Dept. 6-8; Roy L. Wilson, Dept. 14-2; and Hoffman.

TAC Discussed At Institute Meeting

H. Reese Ivey, assistant director of operational analysis Tactical Air Command, spoke on "Modern Tactical Air Power" at the recent dinner meeting of the Institute of the Aeronautical Sciences.

The dinner meeting was held at Western Hills Inn.

Members of the Institute include people from Bell, Chance Vought, Convair and Temco.

Elliott Gets 500 Watt Transmitter As Grand Prize During Hamfest

Convair Fort Worth's Jim Elliott of the engineering department took the cake at the recent amateur radio operator's Hamfest when he won the 500-watt grand prize transmitter.

Elliott, who is better known to his radio friends as W5GXD, was surprised but most elated over the new WRL No. 500 C machine.

Over 1,700 amateur radio op-

erators attended the Hamfest this month which was held at the Exhibit Hall behind Will Rogers Coliseum.

Seven thousand dollars worth of prizes were awarded throughout the fest.

The fest was sponsored by the CRA Radio Club, the Kilocycle Club, the Arlington Radio Club, the Six Meter Net and the Carswell Amateur Radio Club.



PRIZE HAM—Max Schelper, left, CRA Radio Club commissioner, congratulates J. E. (Jim) Elliott for winning the 500 watt transmitter during the recent Hamfest activities staged by local amateur radio enthusiasts.

The Passing Years...

The following service emblems are due during the period ending October 31:

Twenty-year: Dept. 7, E. W. Perry.
Fifteen-year: Dept. 4, N. P. Aikman.
R. K. Carnes, B. Henson, R. C. Lanier, Dept. 19, L. T. Nix.
Dept. 22, W. O. McClaran, O. M. Nelson, B. T. Walker, Dept. 25, S. Powells, Dept. 27, R. M. Benson, Dept. 29, A. J. Hutchinson.
Dept. 30, P. A. White, C. D. Williams.
H. G. Woolbright, Dept. 31, T. O. Mullinax, Dept. 33, T. W. Tackett, Dept. 46, B. R. Moore.
Dept. 48, R. Dennis, Dept. 54, C. B. Jobe, J. H. Simmons, Dept. 55, I. F. Matzinger, Dept. 57, T. Ticknor.
Dept. 58, E. L. Blackwell, G. L. Clardy, J. M. Herrington, W. B. McQueen, W. R. Smith, Dept. 62, J. R. Wilkinson.
Dept. 64, W. H. Bourdier, L. E. Davis, B. K. Gibson, J. L. Goldman, O. F. Hicks, L. R. Miller, R. L. Sawyer, J. A. Story, N. C. Tietz, L. M. Turner, E. J. Wade.
Dept. 65, C. W. Miller Jr., L. J. Mills, J. L. Payne, T. O. Rogers, A. Walker, Dept. 75, J. M. Dye, Dept. 81, P. Opitz, Dept. 82, H. A. Rogers, Dept. 95, L. H. Erwin.
Ten-year: Dept. 3, R. B. Craig, Dept. 4, D. Narviz, L. Sheppard, J. L. Sullivan, T. B. Ward, Dept. 6, J. Range, Dept. 8, T. F. Fowlkes.
Dept. 14, J. L. Alford, Dept. 15, D. T. Jones, Dept. 19, J. C. Carnes, Dept. 20, M. C. Rogers, G. T. Salter.
Dept. 22, L. O. James, W. O. Ware, Dept. 24, J. R. Badger, C. W. Roberts, M. O. Scogin, B. B. Shephard, M. H. Williams.
Dept. 25, C. F. Guyden, R. L. Montgomery, Dept. 27, J. L. Martin, H. W. Norman, W. F. Pittman Jr., O. L. Townley, Dept. 30, J. W. McKee, P. D. Munn, F. J. Ramsey, C. Williams.
Dept. 31, C. E. Blackstock, R. A. Claybrook, T. E. Morgan, W. R. Royalty, G. W. Tawater, G. F. Thomas, J. E. Tomlinson, J. P. Tyro.
Dept. 32, J. D. Jacobs, Dept. 33, W. L. Richards, Dept. 34, S. C. Garrett, D. F. Steel, Dept. 36, H. B. Maxfield, H. E. Sellers, J. P. Tennison.
Dept. 41, L. L. Thomason, Dept. 46, F. B. Boyd, J. H. Ford, I. F. Graston, Dept. 54, F. S. Riley, Dept. 62, D. M. Peninger.
Dept. 64, W. L. Frisby, Dept. 65, G. L. Berry, A. L. Brawner, L. L. Frazier, A. T. Lawson, F. Owens, Dept. 73, L. P. Williams, Dept. 74, R. D. Burns.
Dept. 75, B. J. Brennan, Dept. 81, A. R. Elmore, L. L. Gardner, W. L. Lawrence, H. R. Massey, R. V. Van Meter, Dept. 85, K. H. Arwine, Dept. 81, A. L. Meadows.



WINNER — Eight-year-old Pamela Sue French, daughter of R. E. French of Dept. 6-4 and Mrs. French, displays her blue ribbon and winning flower at the recent CRA Garden Club flower show.

CRA Flower Show Announces Winners

CRA Garden Club Flower Show winners were C. E. Watts, Madison Counts and Mrs. G. L. Allen, Commissioner R. S. Pluskey announced.

Watts received the sweepstakes for having won the greatest number of blue ribbons.

Counts got top honors for his outstanding horticulture entry.

Mrs. Allen's exhibit was chosen as most outstanding in the artistic section.

Pluskey said the show was a success and thanks everyone connected with it.

Women's Clubs Plan To Meet Wednesday

"Preservation of Nature's Beauty" will be discussed by Mrs. Delio Silvestri, local authority on special preservation methods of flowers and vegetables, at the 8 p.m. meeting of the CRA Women's Club Wednesday night at the CRA clubhouse.

Co-commissioner Mary Smith has announced a "gift wrapping program" for the second shift ladies scheduled for 10 a.m. next Wednesday at the clubhouse. Mrs. Walter L. Zincher will be in charge of the program.

Camera Club Reveals New Contest Winners

Winners in the Class "A" and "B" black and white CRA Camera Club contest have been announced by Commissioner M. R. Rogers.

In Class "A," first place went to Art Hoel. George Lockhart took second and third, and Marie Orrick got fourth. Class "B" winners included Bill Johnson, first and third, while O. S. York took second.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective October 13:

Dept. 3: to industrial relations analyst A. L. W. Jones; Dept. 4: to departmental assistant, C. W. Campbell; to material liaison man, B. L. Gumm.
Dept. 6: to design engineer, J. L. Burwell; W. E. Hindman, J. R. Houghton, J. M. Peacock, J. H. Roberts; to senior design engineer, J. J. Pulaski; to design weight engineer, C. L. Bowden Jr., P. H. Deam; to aerophysics engineer, D. E. McDanel; to senior aerophysics engineer, J. A. Coker; to project aerophysics engineer, W. L. Zant; to senior nuclear engineer, L. M. Bostick; to structures engineer, R. U. Barnett; to senior test engineer, H. A. Romero; to flight test engineer, B. G. Mathis; to engineering planner, W. E. Dedmon; to engineering administrative assistant, G. H. Scoggins.
Dept. 7: to factory special assignments man, W. L. Anderson, B. L. Blackburn, W. V. Hughes; to development liaison man, R. A. Eley, W. B. Kozy, W. E. Knot.
Dept. 8: to manufacturing engineer A. W. H. Walther; Dept. 11: to contract analyst A. W. W. Hook, N. K. Sorenson; Dept. 19: to assistant supervisor, J. R. Mayberry.
Dept. 21: to assistant supervisor, J. Dutton, J. W. Ocheltree; Dept. 22: to assistant foreman, H. C. Chasteen.
Dept. 27: to quality control representative, C. A. Dawson, E. H. Starns; to quality control liaison man, F. E. Johnston; to outside inspection representative, G. H. Copelin; to non-destructive inspection specialist, N. B. Wardlaw.
Dept. 75: to assistant foreman, J. Payne; Dept. 81: to assistant foreman, H. A. Kelly, N. W. McLaughlin, H. E. Wiley; to foreman, R. C. Jeter, H. W. Riddle.
Dept. 82: to assistant foreman, K. K. Tasanen; Dept. 89: to buyer A. B. E. Luckett.

Awards

The following received Employee Suggestion awards totaling \$1,809.69 for the period ending October 9:

Dept. 6, M. L. Harborne; Dept. 10, Doloris Ruth Crane; Dept. 14, E. A. McKibben; Dept. 24, G. M. McBride; Dept. 25, Guy Carroll.
Dept. 27, A. G. Bender Jr., F. M. Mason, H. L. Law, H. L. Williams; Dept. 28, T. P. Tyler; Dept. 30, C. W. East, J. G. Hutchins.
Dept. 33, W. E. Johnston; Dept. 35, J. A. Cain; Dept. 36, R. A. Harris; Dept. 46, D. M. Peterson; Dept. 64, D. J. Ancy; Dept. 81, L. R. Green.

Lost and Found

FOUND—Zippo lighter bearing B-58 emblem, the name Bob Smith, and a nickname. Found TCU stadium. Call R. D. McLure, ext. 3583.

Deaths

BRANNAN—Norman C. Jr., 20, Dept. 9-2, died October 13. Survivors are his parents, a brother and sister and his grandparents.
BURT—Johnnie Ruth, 21, Dept. 4-5, died October 10. Survivors are her husband, father and stepmother; her grandmother Stafford and her mother's parents.

Card of Thanks

I would like to express sincere thanks to my friends at Convair for their kind expressions of remembrance and sympathy following the recent death of my mother.

Betty Clingman, Dept. 9-0

★ Convairiety ★

First Place Winner
International Council of Industrial Editors

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, San Diego editor; Grayce Fath, Helen Pemberton.

FW Editorial Offices, C. 69C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8, Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.



CON-FAIR PANORAMA—CRA's 1958 Con-Fair drew a record crowd this year with over 17,000 attending carnival activities and over 3,000 witnessing the first Convair sponsored rodeo. Cowboy Red Calvert, left, of Dept. 36, who walked away with lots of rodeo prizes, gets caught "up in the air" while in the bull riding

event. Fair weather was a big factor in this year's turn-out as is shown with sunshine on the ferris wheel. Three-year-old Jody Stapleton, son of J. H. Stapleton Jr. of Dept. 82, proves he's just as big as the rest of the guys and rings the bell for a cigar.



FUTURE PILOT — Cynthia Lynn Magness, 3, daughter of Richard Magness of Dept. 17-2, gets a kick out of the "little airplane rides" at the Con-Fair carnival.

CONTENT — All Carla Ann Garcia, 4, daughter of Ernest Garcia of Dept. 17-2, wants for Christmas is for her two hands to remain full of "goodies" like she had at the CRA Con-Fair.



HAVE HORSE, WILL TRAVEL—Both young and old got into the rodeo act at Con-Fair rodeo festivities. This young cowboy seems to be having the time of his life.

Con-Fair Draws Record Crowd Of Over 17,000

Bigger and better than ever was the general consensus on Convair Fort Worth's annual CRA Con-Fair which drew a record crowd of over 17,000 in its three-day run earlier this month.

An estimated 3,000 attended Con-Fair's first western type rodeo. This count was taken separately from the count in the CRA clubhouse area.

Chairman for the plantwide recreation committee was J. L. Shackelford. Committee members were Andy D'Ascenzo and Jarl.

"We are certainly grateful to all of the committees and people who gave of their time and services for the success of Con-Fair," CRA President M. A. "Milt" Stewart expressed. "I would like to commend J. L. Shackelford and his committee and all others who helped for a job well-done."

Shackelford did not expect such a "turn-out" of participants for the first annual plantwide rodeo, and he said he was both surprised and happy that 93 employees entered.

Those Convair cowboys and cowgirls who won in the rodeo events received special "buckles" for prizes.

Winner in the ladies' barrel race with a total time on three races of 52.7 seconds was Jo Robinson of Dept. 21-2.

Calf roping honors went to Ted Yarbrough of Dept. 7-2 with 18.8 seconds, M. R. Hoefer of Dept. 75 with 22.9 seconds, and Bill Tankersley of Dept. 22-8 with 23.2 seconds.

Bull riding honors were handed Jim Martin of Dept. 81 and Bob Watson of Dept. 22-1.

Team roping first place went to Calvert, with Tankersley and J. L. Roberts of Dept. 35 coming in second and third.

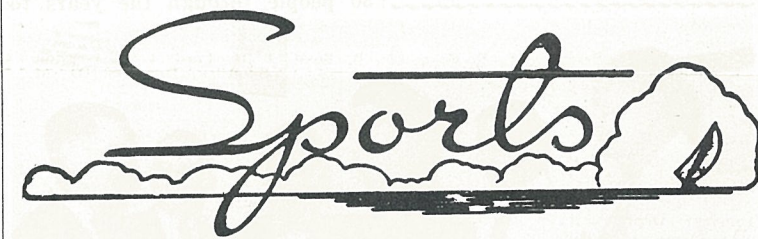
Top door prize winners were Jack Wackerbarth of Dept. 6-9 and Billy R. Williams of Dept. 81 with portable television sets.

Other door prize winners included J. L. Martin, Dept. 75; W. E. Coley, Dept. 46; Tommy E. Lowe, Dept. 64; J. D. Pinkston, Dept. 6-7; D. R. Girth, Dept. 28-4; Leo A. Holfkamp, Dept. 64; and A. M. Dodain, Dept. 82-8.

Also, W. W. Lynch, Dept. 6-7; Jolene Bell, Dept. 6-6; E. W. Lunsford, Dept. 6-6; S. F. Dutton, Dept. 24-1; R. W. Harden, Dept. 6-2; W. S. Turner, Dept. 65; C. E. Goloby, Dept. 6-7; Glyn N. Wilks, Dept. 6-5; C. E. Lowrance, Dept. 81; J. C. Bell, Dept. 24-7; and W. O. Mullen, Dept. 64.



SOCCER—CRA's Soccer team gets into the full swing of things this season with games scheduled for both the CRA area and in Dallas.



CRA's Soccer Players Kick Off New 1958 League Competition

CRA's soccer team, a member of the Dallas Soccer Association, was holding down fourth place in league standings as of last week.

"The team has hopes of moving

up higher in the seven league association," Manager John Romancko said.

The players out kicked Ranch House of Dallas 2-0 in a recent game, and results from Sunday's game with the Flying Dutchmen at Lawnview Park in Dallas were not available at press time.

Members of the league include Chance Vought, Temco, Casa Blanca, the Flying Dutchmen, Ranch House, Monte Carlo and Convair.

According to Romanko, the season is divided into two phases. The first part ends the last of next month. There will be competition for a Texas Amateur Association Federation (TAAF) cup in play between November and January.

Three teams are in the Convair Soccer Association — structures, propulsion and nuclear. This association plays on Wednesdays at 7:30 p.m. and Fridays at 6 p.m. at the CRA soccer field. DSA games are played on Sundays at Lawnview and Samuel's parks in Dallas or at the CRA field.

Convair players include Romancko, Erdal Kemalioglu, Jim Franks, Roger Thompson, Galen Pape, George Stein, Walter Pugh, Heinz Bergmann, Bob Skulsky, B. F. Winckle, Sam Nablo and Jerry Shaw.

Tennis Tourney

Frank Caldarola and Gene Records topped Van Hall and Phil Mahaffey in doubles at the CRA's recent tennis tourney. Convair-ety previously listed Hall and Mahaffey winners.

Activities Calendar . . .

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairity. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, October 29
ASTRONOMY: class, 7:30 p.m., CRA.
BRIDGE: duplicate session, 9:30 a.m., CRA.
ROPIING: calf roping, 8-10 p.m., ranch area, CRA.
Thursday, October 30
ARCHERY: shoot, 7-10 p.m., archery range, CRA.
ART: class, 7-10 p.m., Fort Worth Art Center.
BADMINTON: play, 7:30-10 p.m., Stripling Jr. High Gym.
RADIO: operating night, 7:30 p.m., CRA.
ROCKHOUNDS: lapidary class, 7:30 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.
Friday, October 31
BRIDGE: duplicate session, 7:45 p.m., CRA.
CUTTING AND ROPING: cutting contest 6-8 p.m.; roping 8-10 p.m., ranch area, CRA.
Sunday, November 2
CUTTING AND ROPING: cutting contest 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.
Monday, November 3
MOVIE: "Iroquois Trail" with George Montgomery. Shown lunch period, 50-foot aisle.
VOLLEYBALL: free play, 6:45 p.m., City Recreation Building.
Tuesday, November 4
CUTTING: contest, 7-9 p.m., ranch area, CRA.
MODEL AIRPLANE: control line meeting, 8 p.m., CRA.
STAMP CLUB: stamp auction, 8 p.m., CRA.
TABLE TENNIS: play, 7:30 p.m., CRA.

Wednesday, November 5
ASTRONOMY: class, 7:30 p.m., CRA.
BRIDGE: duplicate session, 9:30 a.m., CRA.
CAMERA: lecture meeting, 7:30 p.m., CRA.
CHESS: meeting, 7:30 p.m., CRA.
ROPIING: calf roping, 8-10 p.m., ranch area, CRA.
WOMEN'S ACTIVITIES: morning, gift wrapping program, 10 a.m.; evening, lecture and display, 8 p.m., CRA.
Thursday, November 6
ARCHERY: shoot, 7-10 p.m., CRA.
ART: class, 7-10 p.m., Fort Worth Art Center.
BADMINTON: play, 7:30-10 p.m., Stripling Jr. High Gym.
RADIO: operating night, 7:30 p.m., CRA.
ROCKHOUNDS: lapidary class, 7:30 p.m., CRA.
SQUARE DANCING: classes: beginners 7 p.m.; advanced 8:15 p.m., CRA.
Friday, November 7
BRIDGE: duplicate session, 7:45 p.m., CRA.
CUTTING AND ROPING: cutting 6-8 p.m.; roping 8-10 p.m., ranch area, CRA.
Sunday, November 9
CUTTING AND ROPING: cutting contest 4-6 p.m.; roping 6-8 p.m., CRA.
Monday, November 10
MOVIE: "Saturday's Hero" with John Derek. Shown lunch period, 50-foot aisle.
VOLLEYBALL: free play, 6:45 p.m., City Recreation Building.
Tuesday, November 11
COIN CLUB: meeting, auction of coins, 8 p.m., CRA.
CUTTING: contest, 7-9 p.m., ranch area, CRA.
ROCKHOUNDS: meeting, 7:30 p.m., CRA.
TABLE TENNIS: tournament, men's and women's singles, plus consolation, 7 p.m., CRA.

Daingerfield

Thursday, November 13
BRIDGE: party bridge, 7:30 p.m., bulletin board lists location.

MANAGEMENT CLUB AT FW HAS EIGHT WOMEN MEMBERS

Nomination of Mrs. Alice Arnold to the slate of officers in current Convair Fort Worth Management Club elections highlights the fact that more and more women are becoming members.

Mrs. Arnold, first woman to be nominated for office in the club, is but one of approximately 65 at Convair Fort Worth who are eligible for club membership.

Included are four women supervisors and 61 other salaried women, as shown on the latest breakdown.

Women members of the club, as shown on the most recent survey of membership rolls, are: Mrs. Arnold of engineering, Mrs. Ora Tate of personnel, Miss Harriet K. Seaman and her sister, Miss Margaret W. Seaman, both of engineering, Miss Juanita Dutton of spares, Mrs. Dorothy Harper of office services, Mrs. Beatrice W. O'Brannon of industrial accounting, and Miss Polly Riley in the office of the special assistant to the division manager.

Others possibly may have joined since the survey.

NMA Ticket Sales To Begin Next Week

Ticket sales for the 1958 NMA Conference sponsored by the Convair Fort Worth Management Club Nov. 22 at Hotel Texas are scheduled to get under way Nov. 7.

Guest speakers will include Honorable Raymond Gary, governor of Oklahoma, and James Q. du Pont, public relations administrator of E. I. du Pont de Nemours and Co.

Conference fee for club members will be \$5, while non-NMA members will be required to pay \$10.



IN FULL SWING—Fix-A-Toy is well under way at Fort Worth. At top left, young Jan Stephens, daughter of Dept. 81's Ollie Stephens, donates her "police car" while at top right Gary Stiles, 4, son of Dept. 8's O. D. Stiles, adds a B-58 model to collection.

At lower right, left to right, T. Brown, W. E. Harwell, R. J. Meeks and W. C. Flowers give hand during pickup in which Cub Scouts helped. At lower left, J. B. Martin and P. M. Carrell of intra-plant transportation join in round-up.

Yanks Have Nothing on Dept. 30, They Won Three Straight, Too!

Convair Fort Worth's machine shop and the New York Yankees have something in common since Dept. 30 now holds the record for having won the monthly quality improvement award for a third consecutive time.

Ike Pemberton, general foreman, is just as happy with his department's record as is Casey Stengel with the World Series.

"People like N. A. Martin of Dept. 22, G. E. Pringle of Dept. 24, O. T. Harrell of Dept. 27 and C. L. Pawkett of Dept. 6-9 have cooperated splendidly with Dept. 30 people through the years to

help us produce quality parts," Pemberton said.

He said it was the "team effort" that enabled the department to hold its present quality position.

The department has moved from a rejection rate of 5.8 per cent in the latter part of 1957 to a current average level of 3.3 per cent. This represents a 43.1 per cent reduction in the rate of scrap and rework losses occurring in the department.

Each month's winning department is computed through a statistical technique which considers current and targeted rejection rates and their variation.

J. Y. McClure, quality control manager, presented the bronze award plaque to Pemberton in a brief ceremony in front of the Dept. 30 office.

This third win makes Dept. 30 a leading contender for the yearly quality improvement award to be presented at the end of the year.

DOLSON ASSIGNED TO RELIABILITY

Vinko Dolson, Convair Fort Worth factory manager, was on a new assignment this week as acting manager of reliability after his appointment by August C. Esenwein, division manager.

Dolson's duties as factory manager are being handled by J. E. Harwell, assistant factory manager who was named acting factory manager for the duration of the special assignment.

Dolson's job will be to consolidate and improve Convair's active reliability program.

The division's departments will assign employees to Dolson on a full-time basis as they may be required.

Miss Thrifty Created at Convair To Emphasize Efficient Work

(Continued from Page 1) the day after payday, day-dreams about what he'd do if he had a million dollars.

Miss Thrifty punches in three minutes before the whistle, five days a week, every week in the month. Wasteful, on an average of about twice a month, decides to stay in bed. This costs him about \$500 in wages during the year.

Miss Thrifty, with an eye on a raise and possibly a higher classification, makes it a point to do the best work she can. Wasteful with his eye on the time clock, makes it a point to do only what's necessary to keep from losing his job.

Miss Thrifty was the creation of artists in the illustrations

group of engineering department's service section, according to Johnnie Herbert, supervisor.

Her creation suggested to the illustrators her opposite—Les B. Wasteful, who looks like the name suggests.

A display using the Miss Thrifty theme and her slogan—"Give Thrift a Lift"—also will be unveiled in the plant display case between the administration building and the factory Thursday, according to D. O. Jordan, executive assistant.

"In all, with Convair's help, we plan to make Miss Thrifty and Wasteful the two best-known characters ever at Convair Fort Worth," said Conrad Kunze, industrial engineering manager who is coordinating the plantwide effort to drive down costs.

FW Cost Reduction Given New Emphasis

(Continued from Page 1) although subsonic, can be expected to accomplish some of the same type missions as intended for the B-58.

He stated there also is a serious profit factor in the cost picture: "For every million dollars we overrun our estimate, we do two things. First, we weaken our position with the Air Force customer, which makes it more difficult to get new business.

"And at the same time we lose a substantial chunk of profit—profit we are reasonably expected by General Dynamics stockholders to make.

"So we've got to cut costs. The money we save can buy additional planes—and provide more jobs for us in the period ahead.

"The B-58 program is the biggest part of our business now and for the next few years. How successful we are at cutting costs will determine how many of us still have jobs here several years from now."



CONGRATULATIONS—Frank Pace Jr., president of General Dynamics Corporation, congratulates Ronnie Zodin, who accepted fifth place national Junior Achievement award for Convair FW Management Club's Wood Vair Company this month in New York.

FW CLUB'S JUNIOR ACHIEVER FIRM RECEIVES AWARD

Ronnie Zodin, Convair Fort Worth Junior Achiever who represented the Management Club's Wood Vair Company, accepted a fifth place national award in New York this month for his organization.

G. Keith Funston, president of the New York Stock Exchange, and Edwin H. Mosler Jr., national president of Junior Achievement, made the presentation.

Wood Vair Company is one of the Junior Achievement organizations sponsored in Fort Worth by the Convair Management Club.

Ronnie was presented the award on the basis of the junior company's annual report. Because of his outstanding junior achievements, he was picked to receive the award for Wood Vair.

Back in Fort Worth, Ronnie said high points of his trip were a visit with Frank Pace Jr., president of General Dynamics Corporation, and his tour through the stock exchange while it was in action.

Children to Receive Tickets to Circus

Convair Fort Worth's Management Club will offer a group of underprivileged children a chance to see the Shrine Circus this year.

The board of control voted to donate \$50 for tickets rather than to purchase an advertisement in the circus program.



SERIES WIN—Ike Pemberton, center, feels like Casey Stengel as he receives Convair Fort Worth monthly Quality Improvement Award for third consecutive time from J. Y. McClure, manager of quality control. Left to right, C. L. Pawkett, G. E. Pringle, N. A. Martin and O. T. Harrell.

Doyle, Hatchett and Gant in Race For Management Club Prexy

(Continued from Page 1)

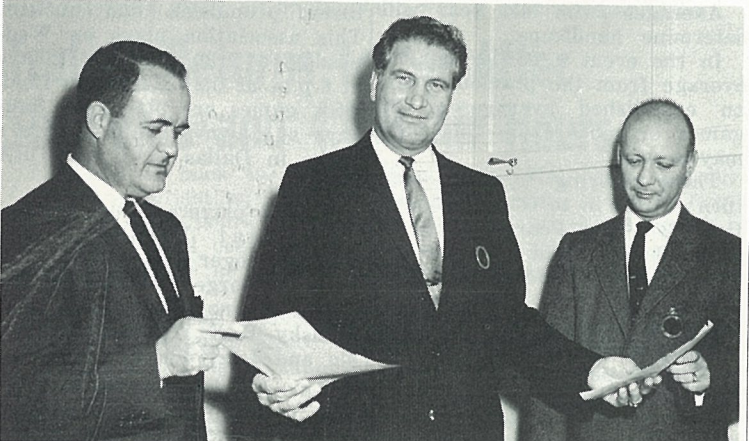
Treasurer's race will have G. P. Nelson of Dept. 10 competing against J. L. Coburn of Dept. 27.

Candidates for the board of control's five positions include Finn Wahl, Dept. 30; W. H. Govett, Dept. 53; E. C. Cauthen, Dept. 27; I. J. Smith, Dept. 75; L. E.

Maxwell, Dept. 30; G. S. Dean, Dept. 25; and John Payne, Dept. 2.

Also, W. W. Weaver, Dept. 27; Max Weinstein, Dept. 24; W. E. Franz, Dept. 22; and G. W. Robinson, Dept. 6.

There will be space for any "write-in" votes on all of the ballots, McWilliams said.



PRESIDENTIAL MATERIAL—Convair FW's C. B. McWilliams, center, chairman of Convair Management Club nominating committee, briefs C. W. (Smokey) Doyle, left, and L. R. Gant, presidential nominees. E. E. Hatchett, third candidate, was not in city at time of picture.



Published every
other Wednesday.



Convair Division of
General Dynamics Corporation.

Convairiety

Vol. 11, No. 25

Wednesday, December 10, 1958

**Fort Worth and
Daingerfield
EDITION**

Fort Worth news office:
ext. 2961; Daingerfield news
office: ext. 424

SAN DIEGO, POMONA AND ANTELOPE VALLEY, CALIFORNIA

DAINGERFIELD AND FORT WORTH, TEXAS



BOARDING—AF and Convair people troop aboard giant C-124 for trip to Eielson AFB, Alaska, where "Operation: Raw Deal" is now under way.

Cost Attention Pointed At 'Nickel, Dime' Items

Convair Fort Worth employees can make substantial savings on items they use every day—"nickel and dime" items which will make up an estimated \$1 million of the cost of building B-58s this year.

"I know that substantial

amounts can be saved," said August C. Esenwein, division manager, "because Convair people already this year have proved it."

Esenwein's comments came in the course of the continuing plant-wide campaign to drive down the cost of the B-58 Hustler supersonic bomber to the Air Force and the taxpayer.

He cited latest reports on operating supplies: for the first 10 months of this year, operating supplies cost \$815,829, compared to \$1,175,465 in the same period of 1957.

"This is a reduction of about 30 per cent, and means that we have saved about 30 cents of every dollar we were spending earlier.

"And we've still got a lot of room for improvement."

An average of more than \$3,800 per day is consumed in operating supplies—paper towels, hand soap, janitor supplies, paper bags, corrugated boxes, wrapping paper, tapes, safety goggles, cheese cloth, gloves, flashlights, batteries and the like.

"If each of us could figure a way to save just a nickel a day on items such as these, and on stationery and office supplies, we could save another \$250,000 in the next 12 months," said Jack Haynes, the division's "bird dog" this year on operating supplies.

Usage of some of the common items gives startling figures. For example, in 10 months Convair Fort Worth used enough cheese cloth to reach from Fort Worth to Houston and back. But that's less than half as much as was used in the same period in 1957.

"That cheese cloth cost many thousands of dollars," said Haynes, "and I'm convinced that we can reduce usage still further."

Operating supplies bought in (Continued on Page 6)



Les B. Wasteful stays "loaded" despite cost.

Xmas Display Boosts Fund

Three wise men following the guiding star to Bethlehem—done in a contemporary three-dimensional effect—help add to the spirit of the Yuletide season in Convair Fort Worth's parts plant offices.

The modern display was created by O. E. O'Rourke of tooling and plays a large part in the Christmas fund program of tooling departments' Christmas Fund. Nativity scene was designed by Gene O'Rourke with help of J. T. Lawrence.



GIFTS GALORE—R. A. Fuhrer, chief manufacturing engineer, and pert Eunice Braswell add to tooling departments' Christmas Fund. Nativity scene was designed by Gene O'Rourke with help of J. T. Lawrence.



PREPARED—Ready for foul weather are M. J. Mellott, engineer; George Koenig and Carroll Harrison, maintenance specialists, and Del Browning of spares.

Esenwein Asks Continuation of Cost Cut Ideas

Convair Fort Worth employees are again invited to send any and all their ideas on how to cut costs directly to Division Manager August C. Esenwein.

"The ideas which have poured into my office have been of such a high level—and reflect such careful and conscientious thought on the part of so many employees—that I'm extending my original invitation," said Esenwein.

"I have been highly impressed with the suggestions, and I've read every one which has come to my office.

"I sincerely appreciate the effort of every employee who has taken the trouble to write me."

The special appeal in Convairiety for suggestions to go to Esenwein has produced considerably over 200 ideas—an average of about 15 a day.

Esenwein again repeated his original invitation. That employees write their cost-cutting ideas in any form they like—on a blank piece of paper, on an Employee Suggestion form in the case of hourly employees, or on a Cost Improvement Proposal form in the case of salaried employees.

Employees may request their department clerks to send their ideas directly to Esenwein's office.

Any ideas which are approved, and which qualify in the Employee Suggestion program, will be eligible for cash awards.

At the same time, a significant change was announced in handling of Cost Improvement Proposals. In the future, salaried people submitting CIPs will no longer be required to make a cost analysis of the savings anticipated.

Alaska Bound B-58 to Seek 60-Below Cold

Thirty-six Convair Fort Worth and vendor people, along with 57 B-58 Test Force officers and airmen, are now in the midst of "Operation: Raw Deal" at Eielson AFB in Alaska.

Taking no chances with the 36-below average Alaska winter temperature, parka-clad Convair technicians, engineers and vendors boarded two C-124s at Carswell Air Force Base Dec. 1 all set for a long winter's session.

"Operation: Raw Deal" is an Air Force project in which all of the sub-systems of the B-58 will be tested in temperatures ranging from 60 to 68 degrees below zero.

Project officer is Maj. Kenneth K. Lewis, pilot of the Carswell AFB B-58 throughout the operation.

Maj. Jim Zwyer and Capt. Perry Amidon are the other B-58 crewmen.

This same B-58 flight crew recently returned from Eglin AFB in Florida after taking the Hustler through a series of tests there in a climatic test hangar.

A total of 12 C-124 flights from Fort Worth have been made to transport cargo and personnel to Eielson, according to Harvey Black of the spares department.

Black says that the spares department has been responsible for transporting 250,000 pounds of ground support equipment to the new 49th state.

Migration of cargo on the C-124s started back in October (Continued on Page 6)

Convair 'Hams' to Keep Families In Touch With B-58 Expedition

Convair Fort Worth and Air Force people assigned to "Operation: Raw Deal" now under way at Eielson AFB in Alaska will have a chance to send Christmas messages to their families—thanks to CRA's radio club.

Radio commissioner Max W. Schelper has arranged for personal "phone-patches" and messages to be relayed for all Convair employees and vendor representatives away during Christmas.

Several of Schelper's "hams" working in the field unit have taken their radio gear along on

the Alaskan project.

Schelper says that KL7FAF is the base of the military-affiliated radio service station at Eielson, and messages will be received in Fort Worth on W5SJZ each day except Mondays on any band (75 meters through 6 meters) between 2 p.m. and 6 a.m. Greenwich Mean Time.

The only requirement for sending a message is that CRA be notified at least 48 hours in advance in order to know time and frequency.

In addition to voice radio messages, Schelper says there will be a CW radio in full operation, also.

CW messages will be sent over K5MYE.

Extra voice and CW radio traffic volunteers will be needed during the last two weeks of this month to help take care of the Yuletide greetings.

Convairiety Alters Publication Date

Because of the close proximity of the Christmas holiday, Convairiety will publish next on Tuesday, Dec. 23, rather than the normally scheduled Wednesday, Dec. 24.



GREETINGS—Bob Zell, on phone, and Jim Elliott tune in "hams" in Alaska to prepare for Christmas greetings from those involved in the Air Force's "Operation: Raw Deal."

Con-Trib-Club Membership Up, Survey Shows

Last-minute membership sign-up in Astronautics Division's Con-Trib-Club drive pushed the total well over the 95 per cent mark. San Diego Division is nearing 90 per cent with 500 cards still out in its annual roundup campaign.

At the close of its campaign last month Fort Worth Division membership in Con-Trib-Club reached 94½ per cent.

In the recent drive conducted at Astro installations in the San Diego area 9,073 out of 9,543 persons contacted signed up for Con-Trib. Membership now stands at 95.07 per cent.

Astro employees on leaves of absence or off-site assignments will be contacted when they return to work at their San Diego locations, according to Dick Mitchell, Astro drive chairman.

In San Diego's clean-up drive, 1,755 new members have been gained from the 3,823 cards sent to all non-members. Only 150 more signifying their desire to join the Con-Trib-Club would be needed to put the membership well over 90 per cent, said Keith Sears, Con-Trib secretary for SD.

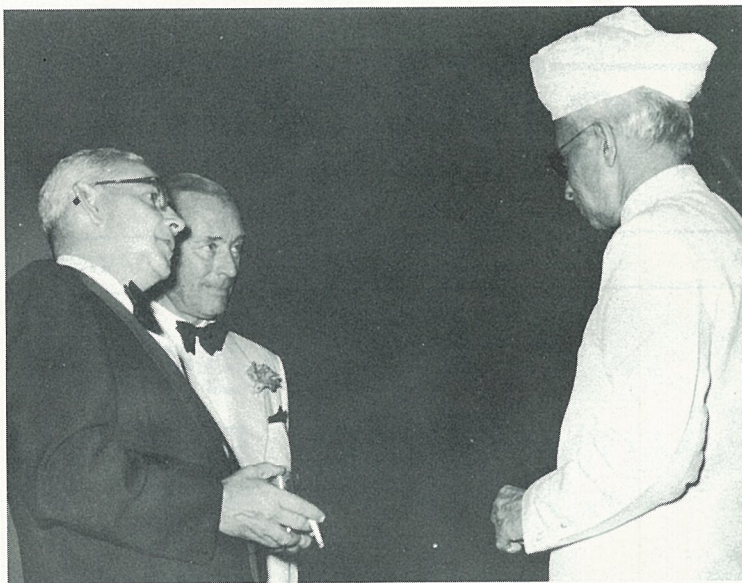
Returns from off-site bases at Palmdale, Edwards, and Holloman and late cards turned in from SD employees now on leave of absence due to vacations or illnesses may be enough to boost SD's participation over the goal.

Convair Couple Wed; First at Vandenberg

First wedding reported among Convair Astronautics personnel assigned to Vandenberg AFB took place Nov. 8 at the Methodist Church at Santa Maria.

Wed were Marie Thomassen and Henry A. Richards, both of Dept. 576-6. Following the wedding a reception was held at the home of the groom's father, Art Richards, a member of Dept. 576-3.

The newlyweds spent a two-week honeymoon at Big Bear.



IN NEW DELHI—Convair President J. V. Naish, left; General I. A. Aler, president of vast KLM airline system, center, and Dr. S. Radhakrishnan Menon, Vice President of India, chat during IATA conference in New Delhi.

Naish Finds 880 and 600 Jets Top Topic of Interest at IATA Meet

Intense interest among top airline executives in both the Convair 880 and 600 jet transports was reported by Convair President J. V. Naish following his return from a meeting of the International Air Transport Association in New Delhi, India.

During the week-long meeting Naish said he conferred with the top leaders of the major airlines of the world.

"The American Airlines order for our 600 and the more recent news that Swissair and SAS airlines have chosen the intercontinental 880 had caused quite a stir," Naish related.

"Everyone with whom I talked was intensely interested and impressed and anxious to learn all they could about our airplanes."

Naish headed a Convair sales delegation that included J. G. Zevely, Convair director of contracts and commercial sales; A. W. Abels, Convair export sales manager; K. C. Gordon, assistant manager, commercial sales, and George Prill, manager of the European office.

IATA holds its annual meeting each year in a different city.

Next year it will be in Tokyo. More and more the annual conference among airlines has become an important gathering point for top level aircraft manufacturers to confer with their opposite numbers among the airlines. In no other industry is business transacted as much on a "president-to-president" basis as in commercial aircraft.

En route to New Delhi, Naish stopped off at Athens, Greece, to confer with Olympic Airways, whose long-range requirements would be well met by the 880. On the way home he conferred with airline officials in both Tokyo and Honolulu, also on the subject of the 880.

Housekeeping Awards Go to MSTs Functions

Winners of November housekeeping awards at Convair Astronautics MSTs are administration support, headed by William McNabb, and test stand 1-1, under foreman Tony Funaro. The eight-ball award went to second floor administration, according to safety engineer M. G. Rustin.

Newly Developed Hot-Forming Tools Turn Out First SD Parts

First experimental parts of new titanium alloys turned out at Convair SD under an Air Force contract for development of new high temperature manufacturing methods have been turned over to SD engineering for testing.

Since the first of this year manufacturing development, tooling, and engineering at SD have coordinated efforts in the development of methods by which aircraft components may be produced from newly-developed titanium alloys. The new materials, which will maintain strength at high temperatures (up to 750 degrees), are being developed for use in high-speed air vehicles of the future.

Work is being conducted at Convair SD under a \$1,388,044 contract from the Air Materiel Command.

An unusual phase of the program is the development of high-temperature forming tools. Approximately a dozen hot-forming tools have been developed at Convair SD for use on conventional production equipment such as standard brake presses, stretch forms, etc. They are now in operation at SD Plant 2 forming test articles of the titanium alloys under research.

The high temperature tools operate in the 1,200-degree F. range. They are made of a type of cast iron (meehanite) which retains strength at temperatures up to 1,400 degrees F.

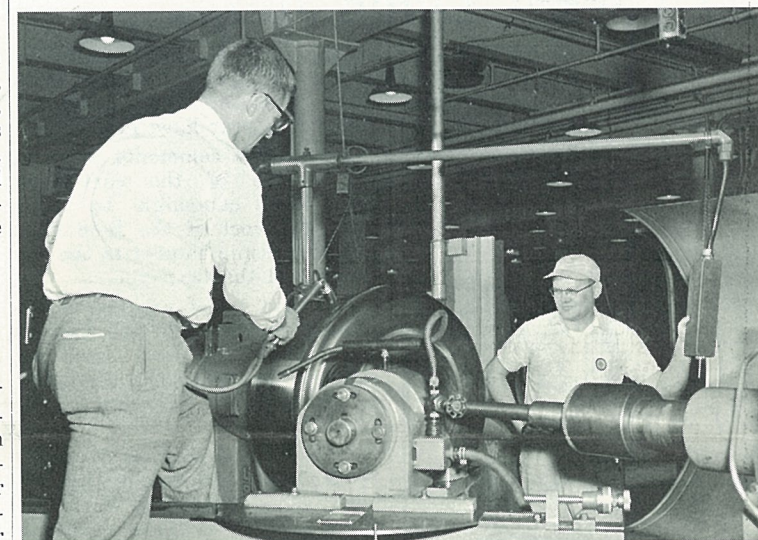
Heating systems used to obtain the over 1,000-degree temperatures are electrical cartridge heaters, resistance heating, and natural gas. A fourth method, use of quartz lamps, is under investigation.

Convair is responsible for the gathering of data on methods of applying heat to sheets of titanium alloys to form the best possible parts.

Engineering test groups will evaluate the experimental articles under various load and temperature ranges.

The hot-forming tooling method, now under development, will not only shorten tooling time, but make possible production of more satisfactory components, reducing spring-back, hand forming, and stress relieving.

Convair departments will continue the development program throughout the next year, reported F. A. Monahan, manager of manufacturing development. It is expected that additional titanium alloys will be added to the program, extending the contract into 1960.



"HOT FOOT"—Carl Stark, SD manufacturing development engineer, left, aims natural gas torch in forming titanium part on Floturn machine in Plant 1's Bldg. 1. At right is W. G. Harrison, machine operator.

Toy Injures Convair Boy's Eye; Points up Need For Xmas Care

Seven-year-old John Lee Hankins, son of Convair Pomona's James H. Hankins (Dept. 51), early this week was in Kaiser Hospital in Fontana recovering following emergency surgery on his left eye Thanksgiving Day.

Surgery was necessary after the small exposed end of a metal Halloween horn, from which the plastic mouthpiece had been removed, pierced his eye while he was playing. Doctors would not predict last week whether or not the sight of the eye could be saved, Hankins said.

"We had thrown the horn in the trash after the mouthpiece came off, but apparently one of the children discovered and retrieved it," Hankins said.

Parents purchasing Christmas presents for children were urged by Convair Pomona's safety section to use caution when selecting toys.

"While necessary for children at Christmas, they can also be dangerous," T. R. Smith, safety supervisor, said. "While there are no set rules for purchasing safe toys, we can suggest a few simple pointers."

Toys with sharp, protruding edges should be avoided. Also, electrical toys and those using or burning alcohol, kerosene and other flammable materials should not be given to small children. Electrical toys, incidentally, should be inspected to be sure that they have the approval of Underwriters' Laboratories, Inc. Since smaller children are inclined to suck and chew on toys, it is wise to avoid those which

have been covered with paints containing lead. Better grades of painted toys usually bear notices that the paint used is harmless to children.

Riding toys—tricycles, trucks and cars, etc.—should be of the proper size for the youngster concerned, and should be sturdy enough to bear his weight and designed so that they will not readily tip over.

"All toys should be inspected frequently, and those which are broken should be repaired or thrown away," Smith continued.

Payroll Deduct Up a Notch

Convair people will notice an increase of payroll deductions from their checks after the first of the year when the new tax rate upping Social Security benefits goes into effect.

After Jan. 1, 1959, employers and employees will be paying a quarter of one per cent more taxes under new provisions of the Federal Insurance Contribution Act.

The F.I.C.A. tax rate will be 2½ per cent on the first \$4,800 of gross wages. Present rate is 2¼ per cent on the first \$4,200. Tax increase will amount to an additional \$25.50 in deductions during the year.

The new measure, passed by the last Congress, provides for a 7 per cent increase in Social Security benefits for all retired workers.



FIRST AF CREW—First AF crew to maintain a B-58 is this group at Edwards AFB, where AF is phase testing the supersonic bomber. T/Sgt. Bob Taylor (second from left on front row) and Lyle Scholfield (fourth from right in front) were aboard plane when it was delivered from Convair Fort Worth to Edwards.

Hustler at Edwards Continues Testing

First B-58 to leave "home" at Fort Worth is continuing Air Force stability and control testing at Edwards AFB on the Mojave Desert.

So far, since it flew to Edwards last February, the aircraft has made 34 flights. It is expected to remain at Edwards until the latter part of January when it probably will be returned to Fort Worth for modifications.

The present flight crew is Capt. Charles C. Bock Jr., and T/Sgt. Robert E. Taylor.

Reliability Ideas Pooled as New Dynamics Panel Meets in Dayton

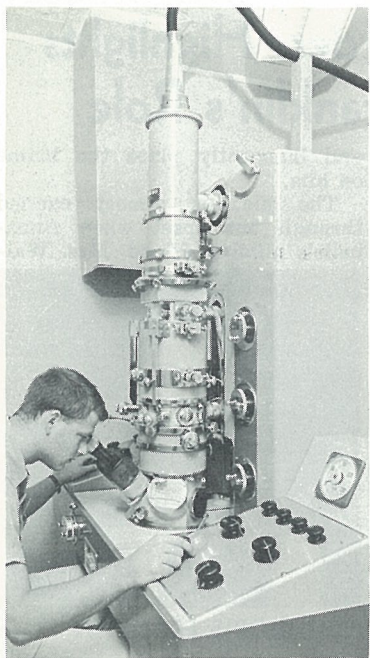
A 27-member company-wide General Dynamics Corporation reliability panel appointed recently held its first conference last month in Dayton, Ohio.

John J. Crowley, executive assistant to the senior vice president-engineering, was elected panel chairman. Vinko Dolson of Convair Fort Worth was elected vice chairman.

H. F. Eppenstein of Convair Astronautics was elected project initiation chairman, and John Holland of Stromberg-Carlson was named program chairman.

The panel was formed to pool ideas, resources and knowledge so that better General Dynamics products can be produced at less cost, according to J. Y. McClure, manager of quality control at Convair Fort Worth, who served as temporary chairman.

The one-day General Dynamics meeting came prior to a two-day annual conference of the Aircraft and Missile Division conference of the American Society for Quality Control. Some members of the reliability panel also attended the quality control conference.



MICROSCOPE—John Strozier of SD physics research group peers into electron microscope that can magnify tiny objects by more than a million times.

Experimental Laboratory To 'Explore' Outer Space

Convair SD physics section is entering the space age in a new experimental laboratory at Plant 1.

Four specific lab groups, formed within the last few months, are setting up equipment which will make possible research into the realms of outer space, Dr. John W. Bond Jr., chief of physics at SD, explained.

Conditions of upper atmosphere can be simulated to determine what kinds of materials and which shapes can best withstand high-velocity flight through and beyond the earth's atmosphere, he said. Problems that will affect satellites and missiles of the future—such as erosion, drag, heat transfer, radiation, meteor trails, and shock fronts—will be investigated.

For instance, knowing how much light will be radiated from space vehicles constructed of different types of materials will help in setting up systems

for detection and identification of missiles while still in free flight.

The solid state physics group, headed by Dr. D. B. Medved, is assembling an ion beam in its lab area in Bldg. 51. Simulating hyper environment at altitudes up to 200 miles above the earth's surface and temperatures of up to 5000 degrees F. a "wind" of ions is generated to bombard various solid materials set up as targets.

One project of this group will be verification of the theoretical work of Dr. Lester Kraus of Convair SD on electrohydrodynamic shocks which would affect motion of satellites in outer space.

Dr. Medved's group, which has been located at the General Atomic laboratory the last few months, moved into Plant 1 the middle of last month to begin actual experimental research.

The nuclear physics group under Dr. C. W. Cook is engaged in basic research work using the General Atomic linear accelerator. Medium energy neutrons are generated to verify calculations of what makes stars burn.

Shock physics research and air ballistic studies are being set up under direction of Dr. H. F. Poppendiek.

Shock tube experiments, under N. N. Hankin, are being conducted in the new laboratory facility in Bldg. 35 (low-speed wind tunnel building) at Plant 1. Ionized gas is driven through the shock tube at extreme pressure to simulate shock waves up to Mach 20 (over 15,000 mph) with resulting high temperatures (in the 20,000-degree F. range). Spectographs are used to record density of shocks through optical windows set at intervals along the tube.

Work has begun on an aero ballistic range and .30-cal. gun to launch projectiles at Mach 15 in a controlled atmosphere for determining wake and shock patterns of hypersonic objects. C. M. Sabin will be in charge of air ballistic studies.

Molecular beam experiments under supervision of Dr. R. H. Neynaber are also under way in the Bldg. 35 lab area. Shock front conditions which would form at reentry of satellites into the earth's atmosphere may possibly be simulated in the molecular beam by means of intersecting beams of atoms and electrons.

All equipment has been designed by Convair SD scientists and built here to their specifications.

An electron microscope, recently acquired by the physics section is proving of great value in its research work. The microscope, only one south of Los Angeles and one of the first to be put into use by an aircraft company, magnifies objects by more than one million times.

The microscope also will be used to some extent for medical research for the benefit of Scripps Clinic and Scripps Institution of Oceanography through a company arrangement.

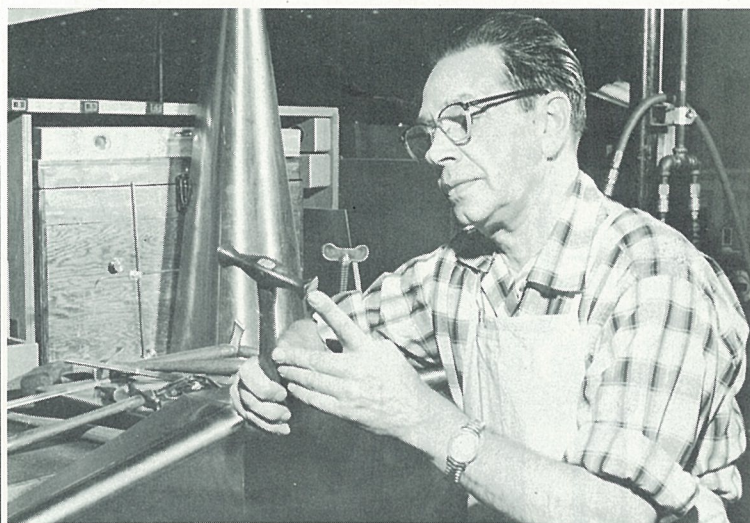
The physics section of Convair SD, which was formed as a part of engineering department about a year-and-a-half ago under direction of Dr. Bond, has expanded to include 47 scientists. About one-third of this number is now engaged in the experimental lab research work.

Results of the research work done at Convair SD is being made available to other Convair divisions in the form of published reports which are generally unclassified, said Dr. Bond.

Lt. Col. H. E. Moose Reports For Duty

A new assistant plant representative for the Air Force has reported for duty at Convair Astronautics. He is Lt. Col. Harvey E. Moose.

Lieutenant Colonel Moose relieves Maj. D. J. Yockey who is awaiting a further assignment. Air Force plant representative is Col. George E. Bostwick.



A 1916 TOOL—More than 40 years old is tool which Hugo Tilling of Astronautics is checking. He used it in silversmithing in Europe.

Once at Tiffany's

Ex-Silversmith Now Fashions Atlas Wind Tunnel Models

The hands of a master craftsman, once used to create intricate silver pieces for sale on two continents, are now helping Convair Astronautics Division in proofing products of the future.

They are those of Hugo Tilling, an instrumentation technician with Astro's engineering test support department (756).

A native of Copenhagen, Denmark, Tilling learned silversmith-

"Silversmithing is a combination of duplication and originality," Tilling said. "You either work to copy family silver designs or are on your own designing something new."

Two of his better known works with Tiffany were the Vanderbilt Cup, still used at a Long Island race track, and a pair of silver picture frames for Franklin D. Roosevelt.

But the boom ended and the "bust" started. Orders dropped off. Tilling worked shorter and shorter hours, finally averaging less than two weeks per month. It was time for a decision—his craft or a steady job. A wife and daughter helped him decide on the latter.

For some time he had noted the growing use of metals in aircraft construction. He approached Major Alexander de Seversky and was immediately put to work on a special airplane being built for Jacqueline Cochran to fly in the Bendix races. Then came other jobs, all in aircraft.

In 1944 Tilling started with Consolidated Aircraft. His talent with metals soon led him to San Diego Division's experimental factory. He worked on the XC-99 project, the "Skate" program, various commercial transports and the F-102A interceptor effort. The latter found him working at Edwards AFB as an instrumentation technician.

As Astronautics began to build a working force, Tilling was one of the first dozen or so men assigned to engineering test support, a sort of experimental factory in itself.

He has handled many assignments for Astro. The latest is the fashioning of stainless steel wind tunnel models of possible future projects.

"There is little difference in metal working," Tilling said. "Of course, stainless steel and other metals of today are harder, but with patience they can be worked into any shape."

"Tolerances are something else. With silver I had the freedom of an artist. Now I cannot vary even the smallest fraction. It is a painstaking, but fruitful calling," he added.

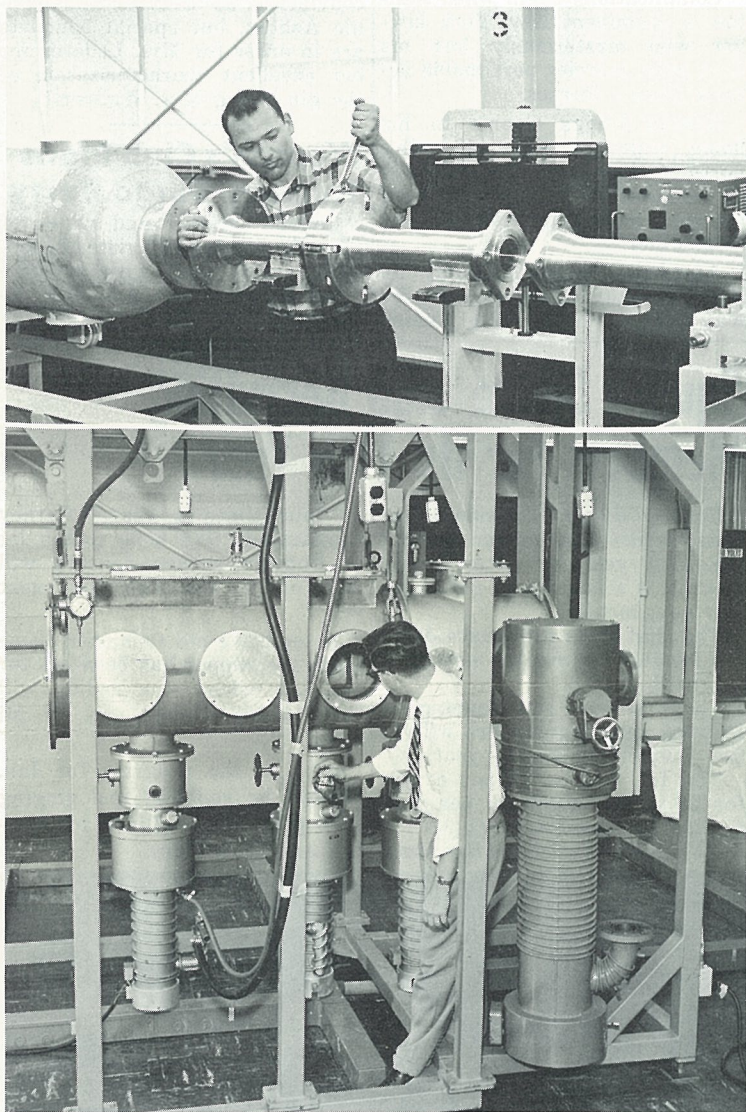
PUNCH BOWL — Photo of 1926 vintage shows Hugo Tilling working on silver punch bowl in Copenhagen.

ing from some of the world's masters. He spent five years as an apprentice, then another five as a well-known silversmith. Most of his early works still grace the tables of European families.

In 1927 Tilling migrated to New York City and a job with Tiffany and Co., a noted name in silversmithing. It was the "roaring twenties," a time of lavish entertaining and spending. Silver was very popular and Tilling was busy many hours each day.



"I've never seen a guy as enthusiastic about Christmas as old Collins . . ."



"SPACE MACHINERY"—At top, N. N. Hankin adjusts shock tube in new experimental laboratory. Below, Dr. Ray Neynaber checks machine designed to simulate shock conditions encountered in outer space.

New Security Card Issuance Starts at San Diego Division

Issuance of new security clearance cards started at Convair SD last week, said Frank G. Merritt, chief of SD industrial security.

The new-type cards, to replace present secret and top secret cards, will be standard throughout all Convair divisions. Approximately 9,000 Convair SD holders will be exchanging their

present cards for the newly-issued ones within the next few weeks. A total of 32,000 Convair people in all divisions will receive the cards ultimately.

Red cards will be issued for secret security clearance and purple ones to designate top secret clearance. The cards will carry the bearer's name, employee number, and signature.

Exchange of cards is being done through departments. All card bearers are now being listed by department location, said Merritt. New cards will go to departments for individuals' signatures. They will then be authorized and processed at industrial security offices and sent again to departments for exchange with old cards.

After all departments have been contacted, a clean-up period will be announced for anyone entitled to the new cards who had been absent during the exchange.

New cards are being issued to new persons just qualifying for clearance. Temporary white cards which have been used during the changeover will be honored until the new cards are put into use.





DOLLS FOR CHRISTMAS—Left to right, Ann Warwick, Lynda Hill and Connie Hollingsworth show some of the dolls that ladies in industrial security have dressed for the underprivileged this Christmas. This work was typical of several departments.

Ladies Compete In Doll Contest

Approximately 24 ladies in Departments 82 and 7 participated in a doll dressing contest in connection with Convair Fort Worth's annual "Operation: Fix-A-Toy" project.

Prize for the winning doll went to Mary K. Smith of the template shop.

The winning doll was dressed in a white evening dress trimmed in red.

Judges for the contest were D. B. Kely and C. Allen Jr., both assistant chief tool engineers.

Dolls were furnished to the ladies in these two departments by the people from Dept. 32, according to Letha Emery, doll chairman.

Camera Club Meeting Postponed for Tonight

Because of numerous departmental Christmas parties scheduled at the CRA clubhouse this month, the camera club will not meet tonight as had been planned.

The meeting for Dec. 24 has also been cancelled. Next meeting has been set for Jan. 14.

Commissioner Miles R. Rogers says some interesting programs have been planned for the new year. These programs will be announced in a newsletter which all members will receive around the first of the year.

Is It News?

Is it news? Then grab a telephone and call Convairiety:

In Fort Worth: ext. 2961
In Daingerfield: ext. 424

Astronomy Club Breaks Ground For Dome House

CRA's astronomy club has broken ground to construct a fiberglass 12-foot diameter dome to house its 19-inch telescope.

Ground breaking ceremonies were held last weekend at the CRA area. This started work on a concrete pad.

The structure was designed by Hardy Walton, who is also in charge of the work.

Location of the dome will be about 35 feet southwest of the bandstand and patio.

Because of departmental Christmas parties, the club will not have its regular lecture meeting this month. However, polishing of the scope's mirror will continue on Wednesday nights at CRA.

Work will continue at Bill Johnson's home on the dome.

Anyone interested in working on any phase of the project is requested to call Bill Stockman at ext. 3650 or JE 6-2143, Commissioner Art Gilligan at ext. 2767 or PE 8-5025 or Walton at ext. 2243.

Chess Club to Enter FW City League Play

CRA's chess ladder has been revised to comply with tournament standings in order that Convair chess players may enter the City League which gets under way in January.

Those interested in playing on a Convair team in the City League may contact Ed Grimm at ext. 2402.

Trophies were awarded recently to winners in the fall tournament.

B. J. Goss won first place, J. Mandl second and Grimm third.

Negotiations are now being made for a match with the Fort Worth Club prior to league play in January.

'Speaking of Murder' Highlights Talented Doris Franklin's Role

"Speaking of Murder," by Audrey and William Roos, produced by Wing and Masque Players, directed by Ben Johnson, technical direction by Pieter van der Vliet, sound by Gene Eichholtz and assistant direction by Carrie Brent.

CAST

Ricky Ashton Byron Johnson
Joe "Cookie"
Connie Barnes Ashton .. Betty Guthrie
Janie Ashton Gargie Johnson
Barbara Norwood
Charles Ashton Dave Halsey
Annabelle Logan Doris Franklin
Mrs. Walworth Virginia Lederer
Mildred Jean Ivan
Mitchell J. D. Goodman

Wing and Masque's "Speaking of Murder" proved to be a successful attempt at suspense melodrama—thanks to the Agnes Moorehead-like characterization of Doris Franklin and the added musical background effects of sound man Gene Eichholtz.

The play revolves around an eternal triangle made up of Charles and Connie Barnes Ashton and an inhibited household governess—Annabelle Logan.

Complications begin when Ashton, a prominent New York lawyer who mysteriously lost his first wife, marries pert movie actress Connie Barnes.

Ashton brings Connie to his home, which is about 40 miles north of New York City, unaware of Annabelle's attempt to turn his son, Ricky, against his new stepmother.

Annabelle tries to build up Ricky's hate in order that she may also do away with Connie

and innocently place the blame on him.

The plot is almost carried through but upset when Annabelle's alibiing friend, Mrs. Wal-



DORIS FRANKLIN

worth, dies after being hit by an automobile.

Mrs. Franklin's portrayal of Annabelle is probably the best of the season thus far.

Halsey and Mrs. Guthrie were convincing as Charles and Connie Ashton, but special bouquets are in order for Mrs. Lederer for her excellent characterization of the gin-loving Mrs. Walworth.

Women's Club Plans January Bingo Party

Convair women and wives of Convair people are invited to open the new year with a bingo party set for 8 p.m. Jan. 7 at the CRA clubhouse.

Square Dance Club Recruiting Members for Its 11th Year

Square dance commissioner Ross Carney has announced that the 11th year of CRA square dancing is scheduled to get under way next month.

The first class for square dancing instructions for the new year will begin Jan. 8.

These classes are running in 10 week series, and there will be five courses during the year.

The fee will be \$3 per couple for 10 weeks and \$7.50 per year for the advanced dancers.

"We have special parties three

or four times a year," Carney commented. "We hope that a lot of Convair square dancers will join us in our fun this next year."

A tentative old fashioned home made pie supper has been set for Jan. 31 where the ladies will bring home cooked pies of all sorts.

Also on the program for Jan. 31 will be yodeling and singing in a program headlined by Martha and Carl Story.



PROMENADE YOUR PARTNER—Buster and Betty Hathcock, foreground, promenade while Helen and J. D. Johnson follow close behind at one of the CRA square dance sessions.

Activities Calendar . . .

Convair Recreation Association events in the next two weeks are listed below. Readers interested may clip this column and save it for reference until next issue of Convairiety. For more information, phone CRA office, ext. 2771 at Fort Worth, ext. 424 at Daingerfield.

Fort Worth

Tonight, December 10
ROPING: calf roping, 8-10 p.m., ranch area, CRA.
Thursday, December 11
ARCHERY: shoot, 7-10 p.m., archery range, CRA.
ART: class, 7-10 p.m., FW Art Center.
BADMINTON: tournament, 7:30-10 p.m., Stripling Jr. High gym.
Friday, December 12
CUTTING AND ROPING: cutting 6-8 p.m.; roping 8-10 p.m., ranch area, CRA.
Sunday, December 14
CUTTING AND ROPING: cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.

Monday, December 15
MOVIE: "Storm Over Tibet." Shown lunch period, 50-foot aisle.
VOLLEYBALL: free play, 6:45 p.m., City Recreation Building.
Tuesday, December 16
CUTTING: contest, 7-9 p.m., ranch area, CRA.
Wednesday, December 17
ROPING: calf roping, 8-10 p.m., ranch area, CRA.
Thursday, December 18
ARCHERY: shoot, 7-10 p.m., archery range, CRA.
ART: class, 7-10 p.m., FW Art Center.
BADMINTON: tournament, 7:30-10 p.m., Stripling Jr. High gym.
Friday, December 19
CUTTING AND ROPING: cutting, 6-8 p.m.; roping, 8-10 p.m., ranch area, CRA.
Sunday, December 21
CUTTING AND ROPING: cutting 4-6 p.m.; roping 6-8 p.m., ranch area, CRA.
Monday, December 22
MOVIE: "Pathfinder" (color) with George Montgomery. Shown lunch period, 50-foot aisle.

Log Book Entries

Promotions

Promotions to and within supervision, professional and administrative effective November 24:

Dept. 4: to cost control analyst, J. G. Barnes, J. B. Clark; to buyer-subcontract, G. C. Cherbonnier Jr., W. G. Rigdon, R. E. Van Dyke.

Dept. 6: to design engineer, L. G. Brackeen, C. B. Davis, W. L. McCully, J. E. Morgan; to senior design engineer, H. V. Rankin; to senior nuclear engineer, S. D. Moore; to aerophysics group engineer, D. J. Simmons; to structures engineer, T. K. Miller Jr.; to senior propulsion engineer, P. P. Truax; to flight test engineer, M. L. Runyan, N. E. Varner; to senior flight test engineer, H. N. Blosser; to project flight test engineer, G. T. Mann; to engineering chemist, J. L. Cozart; to senior engineering chemist, J. P. Thomas; to engineering publications editor, E. J. Boone; to engineering illustrations editor, W. F. Huffman, L. B. Stubbs.

Dept. 7: to assistant superintendent, L. M. Mayfield; Dept. 21: to supervisor, J. C. Kice; to provisioning supervisor, C. O. Tomerlin; to manager, R. M. Gallagher; to contract representative, C. B. Lockett; to production change analyst, H. Stricklin.

Dept. 22: to assistant chief of manufacturing control, R. P. Johnston; to assistant foreman, J. J. Minor; Dept. 23: to engineer, J. G. Verret.

Dept. 24: to assistant supervisor, E. C. Smith; Dept. 25: to departmental assistant, W. M. Crawford; Dept. 28: to process engineer, R. D. Ritchie.

Dept. 29: to quality control liaison man, R. A. Rhodes; Dept. 75: to foreman, H. L. Watson; Dept. 81: to assistant foreman, G. P. Rambo, J. E. Tate, E. C. West, W. T. Williamson.

Dept. 82: to assistant foreman, W. C. Israel, D. Jones; Dept. 85: to aircraft maintenance specialist, O. Johnson, R. G. Nicol, E. A. Ross Jr., J. V. Ruth.

Awards

The following received Employee Suggestion awards totaling \$906.30 for the period ending November 19:

Dept. 6, E. M. Hudson; Dept. 25, L. O. Gabbert; Dept. 27, G. D. Ray, G. T. Teague, J. N. Dearmore, H. W. Norman, E. M. Thomas, M. K. Wylie.

Dept. 30, D. E. Wheatley; Dept. 32, Elmer Main; Dept. 46, C. E. Wyatt; Dept. 53, H. A. Runge, Zack Branch; Dept. 58, J. O. Waggoner Jr.

Dept. 59, M. H. Smith; Dept. 65, T. R. Parker; Dept. 81, W. H. Troxell, B. W. Pederson; Dept. 82, A. G. Fox, L. K. Lankford Jr., J. E. Riggs, J. E. Crammer.

Retirements

SULLIVAN—L. E., Dept. 30. Original hire date December 25, 1950 (FW), retirement effective December 27, 3536 View, Fort Worth.

BEARDEN—W. B., Dept. 53. Original hire date November 20, 1944 (FW), retirement effective December 5, 600 S. Center, Arlington, Texas.

BALLINGER—J. L., Dept. 54. Original hire date December 8, 1942 (FW), retirement effective December 24, 2828 Whitmore, Fort Worth.

CYPERT—J. J., Dept. 81. Original hire date March 26, 1951 (FW), retirement effective November 24, Route 4, Grandview, Texas.

OLIVER—J. M., Dept. 54. Original hire date November 27, 1946 (FW), retirement effective December 12, Route 2, Canton, Texas.

WILLIAMS—C., Dept. 30. Original hire date October 18, 1948 (FW), retirement effective December 3, 4140 Ohio Garden Rd., Fort Worth.

Births

ROSS—Marna, daughter, 8 lbs. 3/4 oz., born November 16 to Mr. and Mrs. J. E. Ross, Dept. 6-7.

Deaths

McBRIDE—Sam N., 57, Dept. 24-6, died November 21. Survivors are his two daughters; a sister, two brothers, his mother and two grandchildren.

NAPIER—Edward W., 72, died November 29. Mr. Napier is the father of George Napier, Dept. 7-0.

TAYLOR—Joseph M., 57, Dept. 4-5, died November 29. Survivors are his wife, a son and five daughters, and several grandchildren.

Lost and Found

LOST—Ladies' Elgin watch, yellow gold, several small diamonds near face. Reward. Contact Mary Graves, ext. 3594.

The Passing Years

Fort Worth

The following service emblems were due during the period December 1 through December 15:

Fifteen-year: Dept. 3, M. G. Jones; Dept. 4, J. P. Avery, H. D. Kuykendall; Dept. 6, T. F. Paniszczyn; Dept. 17, E. L. Lagesse.

Dept. 20, A. T. Stegall; Dept. 22, W. A. Draper, W. L. Lewis, W. B. Westbrook; Dept. 24, I. Wilson.

Dept. 25, R. L. Ellis, W. H. Simmons; Dept. 27, W. M. Young, A. E. Sisk, W. C. Stephens; Dept. 29, C. C. Johnston Jr., T. C. Powers.

Dept. 30, R. H. Baucom; Dept. 31, G. W. Carter, J. F. Curl, J. D. Christian, E. R. Fanning; Dept. 32, A. F. Filip; Dept. 36, R. S. Todd.

Dept. 44, S. P. Edinburgh; Dept. 46, L. L. Berry, V. M. Parr, H. L. Holcomb, A. D. Jenkins, J. T. Short, A. L. Simmons, C. C. Stewart.

Dept. 53, A. Martin; Dept. 54, H. E. Sandel, J. S. Deuval; Dept. 58, E. L. Oden; Dept. 59, C. R. Robbins; Dept. 62, J. D. Cremeen Jr.

Dept. 64, N. McBride, W. M. Ross, C. L. Stiles; Dept. 65, O. C. Caywer, D. L. Garrett, J. E. Heflin, T. A. Holland, R. Lane Jr., E. W. Stephens, J. W. Taylor.

Dept. 81, J. B. Carson, F. E. Cole, S. B. Lain, S. E. Webb; Dept. 82, J. Marbut, P. W. Wilkinson.

Ten-year: Dept. 3, M. C. Money; Dept. 4, W. E. Beck, O. H. Campbell; Dept. 6, C. C. Crickman, M. C. Lefevre.

Dept. 14, R. E. Baskett, H. D. Hampton, F. H. Patterson; Dept. 15, J. E. Burnett, A. D. Tanner; Dept. 19, R. T. Nordeck.

Dept. 21, M. B. Neil, E. M. Parrish; Dept. 22, J. R. Lawson, R. H. Shackelford, J. E. Wise; Dept. 24, H. G. Sadler, N. H. Thomas, T. E. Seale.

Dept. 25, V. E. Bramlett; Dept. 27, S. C. Butler, G. W. Warren; Dept. 30, J. L. Brown, W. H. DeLange, G. W. Maples.

Dept. 32, F. Becker, R. W. Breitkreutz; Dept. 33, E. R. Bucklew, H. G. Roberson; Dept. 64, B. J. Thomas; Dept. 73, R. B. Greeney.

Dept. 75, C. W. Abel; Dept. 82, F. C. Behl, B. L. Stokes.

★ Convairiety ★

First Place Winner
International Council of Industrial Editors

Founded Sept. 1, 1948. Published in four editions (Fort Worth-Daingerfield, San Diego, Pomona and Antelope Valley-Holloman) by Convair Industrial Relations. General Offices, San Diego, Calif., Logan Jenkins, editor.

Approximate current total circulation, over 65,000. News items and letters to the editor are solicited, but no advertising can be accepted.

SD Editorial Offices, Building 32, Plant 1, ext. 1071. Staff: Bryan Weicker-sheimer, San Diego editor; Grayce Fath, Helen Pemberton.

FW Editorial Offices, Col. 69C, Ext. 2961. Mailing Address: Convairiety, Convair, Fort Worth, Texas. Telephone PE 8-7311. Staff: Bob Vollmer, Fort Worth editor; Pat Baker, Bobbie Sue Marr.

Pomona Editorial Offices, Room K-222, Bldg. 2, ext. 6226, mail zone 3-8. Staff: James Combs Jr., Pomona editor; Dorothy Keller.

Antelope Valley Editorial Offices, Room 31, Bldg. 301B, Palmdale, ext. 337. Staff: Betty Lou Nash.

Poly Peewees Take Ridglea 19-14 for 75 lb. Championship

League champions for the 75-pound pee wee footballers are the Poly Yellow Jackets with a 19-14 win over the Ridglea Eagles.

In the recent championship game, Poly made 19 points in

the first half on runs ranging from 30 to 65 yards by Rily Brannon, left end. Bryant Johnson, team captain, came through on the conversions for extra points.

Ridglea pee wees' chance for victory vanished in the last two minutes of the game when a pass was intercepted by fullback Larry Murdock on the Poly 25-yard line.

In addition to outstanding defensive play by Captain Johnson, Guard Tommy Richardson stood out in his defensive game.

Poly's record for the year stands six wins and one loss. They scored 139 points to their opponents' 49.

Other Poly players include Ricky Phillips, Steve Cagle, Jerry Broyles, Tommy Smith, John Yarbrough, Kendell Emmett, Mike Cathey, Bill West, Steve Mazzei and Craig Teague.

Also, Gene Woodard, Larry Crownover and Kenneth Petty.

Coach was Bob Compton of Dept. 24-2.

Washer Pitchers Vie In Plantwide Tourney

Fifty-six Convair washer pitchers took part in the recent Thanksgiving washer pitching tournament which was won by O. A. Cornelsen.

Although Cornelsen took first place, he still did not take Commissioner M. E. Goolsby in a pre-tournament challenge.

The commissioner and Cornelsen are slated to compete again in a singles tournament set for next spring.

O. M. Howell took second honors among the washer pitchers, and third place went to Chuck Gattis.



SHORT IN THE SADDLE—Young horsemen try sitting tall in the saddle at CRA's first Junior Horse Show held recently at the CRA ranch area. Over 70 youngsters entered in this first annual event.

Seventy-one Young Horsemen Participate in CRA's First Annual Junior Horse Show

Seventy-one young horsemen competed for 32 trophies recently at the first Junior Horse Show held in the CRA ranch area.

There were six ribbons given in each class. Classes represented were western horsemanship, ranch riding, western pleasure, obstacle course, reining, barrel

racing, calf roping, ribbon roping and championship classes.

In the 12 and under group, Jerrell Coburn walked away with high prize in western horsemanship honors for the group from the same prize for the girls. Ronnie Bankhead and Caroline Davis latched onto western horsemanship honors for the group from 13 to 18.

Ranch riding honors for boys 12 and under went to Chuck Masters with Lyn Harris taking the same title for the girls. Johnny Lake and Judy Burton of Arlington were awarded trophies for the same class in the teenage group.

Mike Wilson and Sharon Wilson were top riders in the western pleasure class for 12 and under, and Tom Hodge and Sissie Crumley got the same for those 13 to 18.

Obstacle course winners from

12 and under were Wilson and Miss Harris. Lake and Miss Burton again stepped in for the teenagers.

Dub Reeves and Miss Yarbrough were tops in the reining class for the younger set, and Bankhead and Jamie Crump were winning reiners for the older set.

In barrel racing, Jimmy Griffen and Miss Harris took first place. Donnie Helm and Carolyn Boner were the top teenage barrel racers.

Doyle Dixon latched onto the highest honors in the roping class with 15.9 seconds. This event was open to boys 18 and under.

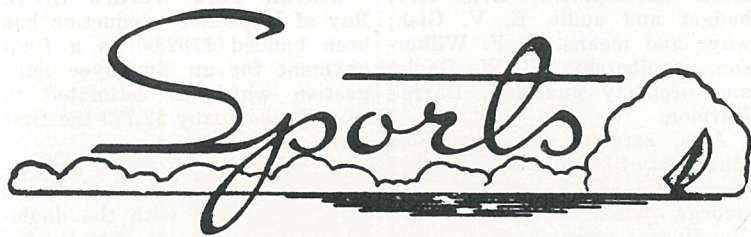
Championship trophies were won by John Lake of Dallas and Jimmy Griffen.

Reserve champion trophies went to Miss Harris and Miss Burton.

Crews and R. S. Reade, riding and roping commissioner, thanked all who helped make the first Junior Horse Show a success.



WEAKER SEX?—Who says girls can't play basketball? Convair's girls' team is well into practice every Monday and Tuesday night at the Northside Recreation Gym. Team captains are Billie Huddleston, Cleo Bourland, Rose Richardson and Betty McCrery.



CRA's Girls Basketball Players Seeking More Feminine Cagers

Players are still being recruited by the CRA girls' basketball team, and league play will begin after a few more players have been added to the roster.

The girls have four teams, the number required for league play. However, more players are needed for each team in order to insure the proper number of substitutes.

Captains for the teams are Billie Huddleston, Cleo Bourland, Rose Richardson and Betty McCrery.

Practice is being held every Monday and Tuesday night at the Northside Recreation Gym.

Any women interested in playing with the girls' league may contact Mrs. Huddleston at ext. 3243.

Lancer Wins Gulf Coast Title In Men's Singles Table Tennis

Winning in three consecutive games, Louie Lancer of Dept. 22-8 defeated Vlas Soliunas of San Antonio for the 1958 Gulf Coast Open Table Tennis Men's Singles Championship in Houston recently.

"Although I won in three straight games, it was no push over, believe me," Lancer commented. "Soliunas is an all out defensive player and was getting steadier as the match progressed."

Bobby Freese, son of Convair Fort Worth's H. B. Freese, came out on top in the Boys' Division. He was a strong third in the Junior Boys' Division.

Freese's hardest match was with Randy Potter of Fort Worth. Two of the tournaments top

seeded players were defeated by Soliunas. He won in five games over Al Engle of Houston and in three games from Richard Puls of Dallas.

Lancer and Bill Potter lost to Engle and Steve Smith in the semi-finals of men's doubles.

CRA Building Closes For Christmas Parties

All meetings scheduled this month in the CRA building have been cancelled because of departmental Christmas parties.

According to the CRA office, astronomers and people working with photography in the darkroom will not be affected.

CRA's Cagers Open Competition

CRA basketball league play is in high gear on Tuesday and Wednesday nights at the R. D. Evans Recreational Building.

There are two leagues competing in CRA ball this season—the CRA League and the Convair League.

The CRA League plays on Tuesday nights from 7-9 p.m., and the Convair League plays on Wednesday nights at the same hours.

Three games are being played each night except on holidays.

Convair is being represented in City League ball this season by the rockets. City League competition began last week.

The Rockets were winners of the recent Thanksgiving Basketball Tournament when they defeated Tooling 50 to 27.

Playing with the Rockets are Bill Bear, Monty Woodruff, Guinn Pickett, LaVern Lee, Benny Freeman, John Perdue, Jim Lewis, Darryl Franks, Byron Welborn and Doug Cooper.

Bill McCahan is the coach, and Frank Javarone is manager.

Prizes Awarded to Horseshoe Pitchers

Wesley Gowins and Leon Ferguson took first place in the recent Thanksgiving Horseshoe Pitching Tournament.

Gowins and Ferguson defeated W. B. Felts and Jack Winn 262 to 256.

According to Commissioner Finn Wahl, the tourney was successful as almost all Convair horseshoe pitchers were on hand for the fun.

Sailors Pick Officers

Newly elected vice commodore for the CRA boat club is A. E. Grable of Dept. 4-5.

R. A. O'Bannon of Dept. 56 is the new secretary-treasurer. Convair previously listed O'Bannon as vice commodore.

Bowlers May Play In SWA Tourney

CRA bowlers interested in participating in the Southwest Bowling Association tournament Mar. 7 and 8 in Wichita, Kan., have been asked to contact Commissioner H. F. Carlberg.

Carlberg says that Mar. 7 and 8 have been reserved for Convair, and he needs to know in advance those who would like to take part.

Those interested may contact him at ext. 3430 or 3873.

Free Play Volleyball Slated for Monday

CRA volleyball players will have a free play next Monday night (Dec. 15) at the Southside Recreation Building at 215 W. Vickery from 6:45-10 p.m.

Commissioner Andy J. D'Ascenzo has announced that play for Dec. 22 and 29 has been cancelled because of the Christmas holidays.



BETTER THAN EVER—CRA's new movie projector reflector has helped to make 50-foot aisle 11 a.m. movies better than ever. Crowds have been increasing, movies improving, and the image brighter—thanks to the reflector.



HAPPINESS FACTORY—Pleasure for thousands of youngsters was being manufactured at Fort Worth when these Fix-A-Toy pictures were taken. At left rubber dolls are being stuffed, while at right "doll doctors" remove any blemishes. In center, teddy bears and stuffed poodles are rejuvenated.

Left Over Doll Bits Go Together To Form 36 Christmas Beauties

Thirty-six Christmas dolls have been put together from the "left-overs" of last year's "Operation: Fix-A-Toy" project by Convair Fort Worth's Berenice Eichholtz of engineering department.

Mrs. Eichholtz said that she has not been able to work with the other Convair people in the workshop behind Will Rogers Coliseum because she's allergic to dust.

"I wanted to do my part, so I asked last year's doll chairman, S. F. (Steve) Shelvey of

Dept. 22, if I could have the left-overs from the doll repair," Mrs. Eichholtz commented.

She took the scraps home and tried matching arms, legs and bodies and finally pieced together 36 dolls.

"Didn't have time to dress all of them—got clothes on about 14—but I did manage to get them all painted and together," she added.

Last month Mrs. Eichholtz turned over her group of dolls to H. L. (Hal) Collins, who is in charge of this year's doll repair.



RAGS TO RICHES—Berenice Eichholtz of Convair Fort Worth's engineering department illustrates what can be done from scraps of disassembled dolls. She pieced together 36 dolls from "left-overs" of last year's Fix-A-Toy project.

Cost Attention Pointed At 'Nickel, Dime' Items

(Continued from Page 1) the first 10 months of the year also included 22,791 pairs of socks—socks used by employees to keep from scratching surfaces of the B-58.

Another astronomical figure comes from "industrial wiping cloths"—"rags" to most employees. A total of 644,000 cloths were used in the first 10 months of this year.

"We can reduce that figure if people will turn in the cloths they're not using," said Haynes.

Haynes urged employees not to use expensive cheese cloth to dust desks. Instead, they are

asked to check out industrial wiping cloths from the perishable tool crib on the mezz just north of the 50-foot aisle on C aisle.

"We have made good progress in improving our use of operating supplies in 1958," said Haynes, "but we can still do more. And every dollar we save helps bring down the cost of the B-58s."

Dances Planned For Supervision

All Convair Fort Worth supervisors and members of Convair Management Club have been invited to attend the Christmas dance given every year in their honor, Division Manager August C. Esenwein announced this week.

In order to hold the dance at Ridglea Country Club—and to include all supervision and club members—the party will be held this year in two installments: a dance Friday night, Dec. 12, and a repeat performance on Saturday night, Dec. 13. Danny Burke's orchestra will play for dancing.

Invited guests planning to attend have been requested to bring along the invitations they receive in the mail in order that the country club not be unduly overcrowded on either Friday or Saturday night.

AF, Industry Confer On Aviation Safety At Calif. Conference

Five Convair Fort Worth representatives were among more than 300 aviation safety people attending the 37th Air Force Aircraft Industry Conference recently in Palm Springs, Calif.

Representing Convair Fort Worth were George Davis, pilot; John E. Hickok, project test engineer; Ernest L. Kistler, aerodynamics engineer; Max W. Martin and Michael Sweda, of design engineering.

Maj. Gen. Joseph D. Caldara, director of flight safety research for the Air Force, told conferees that efforts must be increased to enable pilots to escape safely from disabled aircraft.

Attending the conference were representatives from the Navy, Army, Marine Corps, Air Force, Royal Canadian Air Force, Civil Aeronautics Board, Civil Aeronautics Administration and the aircraft industry of both the United States and Canada.

Xmas Display Boosts Fund

(Continued from Page 1) ing, Depts. 7-4, 14, 23 and 24. Working along with O'Rourke on the display were Bill Sharp and J. T. Lawrence.

Next to the nativity scene is a place for contributions. Instead of buying cards and gifts for friends in the departments, employees are encouraged to give the amounts normally spent for such items to the special fund, as many departments do.

Donation deadline in tooling has been set for Sunday (Dec. 14).

One-hundred-and-twenty-eight needy families will be taken care of this Christmas by the special fund, according to co-chairman C. R. Nunley and W. M. Berry.

This Christmas project has been streamlined by the help of special committees.

Committees other than the display committee include committees on finance, needy families, warehouse and storage, grocery, toy, grocery assortment and grocery and toy distribution.

Last year the tooling departments supplied groceries for 81 families with \$1,598.68, and toys for 70 families.

Alaska-Bound B-58 Seeks Cold Climate

(Continued from Page 1) and was near completion the first of this month.

Since everyone involved in the project will be away for the Christmas holidays, special arrangements have been made by CRA radio commissioner Max Schelper for special Yuletide messages through "ham radio" operators.

The Carswell and Convair delegation will become a part of a big task force during the Alaskan testing.

Cold weather tests will be under way at the same time on a San Diego-built F-106.

Toys by the Thousands Ready For Christmas

Some 11,950 repaired and repainted toys will be delivered Saturday to approximately 1,000 needy Fort Worth and Tarrant County families as "Operation: Fix-A-Toy" starts on the final phase of its Christmas mission.

All types of toys from bicycles to tiddly-winks have been put back in tip-top shape for distribution by volunteer Convair Fort Worth people.

Repair work started in the sheep barn behind Will Rogers Coliseum back in November and was completed last Friday.

According to G. W. (Woody) Beckham, works chief, after the

toys were repaired, they were packed and made ready for shipping. This helped to eliminate the last-minute rush in getting the playthings out to the families on time.

Beckham said around 400 people a day helped with the project up until the last week or so when attendance dropped to around 300.

Repair work was done in two shifts. First shift people worked from 6:30-9 p.m., and second shifters repaired from 9-11:30 a.m.

Beckham said that he wanted to thank each and every department for the splendid cooperation demonstrated throughout the repair work.

"I think that this year's project has been one of the most successful, and it would never have been possible without the loyalty and faithfulness of the volunteer workers," he added.

15 Named for Key Club Posts

Appointments to 15 key posts in the Convair Fort Worth Management Club have been made by L. R. Gant, president-elect who will take office Jan. 1.

Four positions remained to be filled at press time.

Those named are: Junior Achievement, M. J. Scott; personal development, Erle Hill; budget and audit, E. V. Gish; ways and means, C. F. Wilkerson; membership, C. W. Doyle; and property guardian, Darrell Harmon.

Also, sergeant-at-arms, Joe Mazurek; ticket distribution, George S. Moffat; bowling, George Symm; public relations, Jim House; research, E. A. Cartwright; visitation and flowers, Jim Long; program, Charlie Buse; booster, Henry Jones; and B-36 memorial, Sam Keith.

The four positions not filled at press time were Fix-A-Toy, awards, special events and historian.

Gant will be installed as 1959 club president in January at a special installation ceremony.

Talbott Award For Excellence Goes to Col. Leonard R. Hall

Col. Leonard R. Hall, Convair Fort Worth Air Force plant representative, has been presented the Talbott Award—the first time the recognition has been won by a procurement and production group in the Air Materiel Command.

Colonel Hall received the award from AMC commander Gen. E. W. Rawlings at Wright-Patterson Air Force Base in Dayton, Ohio.

The award is the Brig. Gen. Nelson S. Talbott Award for management efficiency.

In the past, the Talbott Award has been presented annually to Air Force depots having the highest efficiency and effectiveness as reflected in the management evaluation system.

Since the majority of the depots are being discontinued, it was the commander's decision that the award be presented on a quarterly basis to a procurement and production operation activity in AMC.

Inspection's G. D. Ray Collects \$162 Final Suggestion Check

Convair Fort Worth's G. D. Ray of inspection production has been handed \$162.80 as a final payment for an Employee Suggestion which is estimated to save the company \$2,773 the first year.

Ray's suggestion had to do with the doublers for bonded panel assemblies.

Before installation of his suggestion, doublers for the bonded panel assemblies were fabricated as detail parts, then bonded to the

skin on a bonding press.

By using the new process suggested by Ray, fabricating the detail parts and bonding doublers is eliminated.

Depts. 'Adopt' 1,000 Families

Approximately 1,000 needy families have been adopted for Christmas by departments at Convair Fort Worth.

Other departments, including 8, 15, 16 and 25, are making donations to such charitable organizations as Goodfellows and Santa Pals.

Departments adopting 10 families or more this Yuletide include Depts. 6, 7, 14, 23, 24, 27, 30 and 64.

Individual departments adopting a large number of families are Dept. 81 with 57 families and Dept. 82 with 61 families.

Other departments adopting families are 3, 10, 11, 17, 18, 19, 20, 22, 28, 29, 31, 32, 33, 34, 35, and 36.

Also Depts. 41, 44, 46, 48, 52, 53, 54, 55, 56, 57, 58, 59, 12, 62, 63, 65, 73 and 75.



G. D. Ray

Many Department Parties Scheduled

Convair Fort Worth's Christmas social season has been in full swing since the latter part of November with parties scheduled up to Dec. 23.

Partying at the CRA Clubhouse will be Dept. 3 on Dec. 12 and Dept. 11 on Dec. 23. Depts. 10 and 17 had Christmas parties last week at CRA. Other departments celebrating at CRA last week were Depts. 18 and 19.

Ridglea Country Club will be the setting for Dept. 4's annual Christmas "get-together" Dec. 18.

A combined party has been set up for Depts. 23, 24, 81 and 82 at the Lake Worth Casino Dec. 19.